# **DEPARTMENT OF THE ARMY**

# **Procurement Programs**



Committee Staff Procurement Backup Book Fiscal Year 2007 Supplemental Budget Estimate

WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

# DEPARTMENT OF THE ARMY FISCAL YEAR (FY) 2007 PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES PROGRAM SUPPLEMENTAL

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

Activity: 01. \*\*Tracked Combat Vehicles\*\*

			(DOLS)			(	THOUSANDS C	F DOLLAF	RS)		
LINE	ITEM		FY 00		Y 2007		Y 2007		2007		Y 2007
NO.	NOMENCLATURE	ID	UNIT	QTY	aseline COST	QTY	Title IX COST	Supp QTY	olemental	QTY	Total COST
(1)	(2)	(3)	COST (4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
(1)	(2)	(0)	(4)	(0)	(0)	(1)	(0)	(5)	(10)	(11)	(12)
	**TRACKED COMBAT VEHICLES**										
2	BRADLEY BASE SUSTAINMENT (G80718)	Α			206,107		1,402,500		520,800		2,129,407
5	STRYKER VEHICLE (G85100)	В			795,370		107,130		857,685 		1,760,185
	SUB-ACTIVITY TOTAL				1,001,477		1,509,630		1,378,485		3,889,592
	**MODIFICATION OF TRACKED COMBAT VEHICLES**										
6	CARRIER, MOD (GB1930)				22,877		132,200		36,191		191,268
7	FIST VEHICLE (MOD) (GZ2300)				15,950		130,000		16,257		162,207
9	BFVS SERIES (MOD) (GZ2400)				69,707				115,190		184,897
10	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)				28,599				15,785		44,384
12	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	А			36,347		272,400		65,635		374,382
14	M1 ABRAMS TANK (MOD) (GA0700)				187,692		574,700		75,259		837,651
15	SYSTEM ENHANCEMENT PGM: (SEP M1A2) (GA0730)				170,410		700,000		325,000		1,195,410
50	ABRAMS UPGRADE PROGRAM (M1A2 SEP) (GA0750)								596,351 		596,351 
	SUB-ACTIVITY TOTAL				531,582		1,809,300		1,245,668		3,586,550
	ACTIVITY TOTAL				1,533,059		3,318,930		2,624,153		7,476,142

# DEPARTMENT OF THE ARMY FISCAL YEAR (FY) 2007 PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES PROGRAM SUPPLEMENTAL

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

Activity: 02. \*\*Weapons and other Combat Vehicles\*\*

			(DOLS)			(	THOUSANDS O	F DOLLAR	RS)		
LINE NO.	ITEM NOMENCLATURE	ID	FY 00 UNIT		Y 2007 aseline		Y 2007 Title IX		2007		Y 2007 Total
NO.	NOMENCIATORE	טו	COST	QTY	COST	QTY	COST	QTY	lemental COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	**WEAPONS AND OTHER COMBAT VEHICLES**										
18	HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)	Α			20,287				17,696		37,983
20	M240 MEDIUM MACHINE GUN (7.62mm) (G13000)	Α			9,537		21,600		66,165		97,302
21	M249 SAW MACHINE GUN, 5.56MM (G12900)	Α			3,301		22,200		3,314		28,815
22	MK-19 GRENADE MACHINE GUN (40mm) (G13400)	Α			1,718		10,050		36,462		48,230
23	MORTAR SYSTEMS (G02200)								35,212		35,212
25	M107, CAL 50, SNIPER RIFLE (G01500)	Α			8,424				719		9,143
26	XM110 SEMI -AUTOMATIC SNIPER SYSTEM (SASS) (G01505)	Α			7,271				317		7,588
27	M4 CARBINE (G14904)	Α			2,212				94,912		97,124
28	SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS) (G18300)	В							4,000		4,000
29	COMMON REMOTELY OPERATED WEAPONS STATION (CROWS) (G04700)	Α							220,000		220,000
	SUB-ACTIVITY TOTAL				52,750		53,850		478,797		585,397
					0_,. 00		33,333		,		330,001
	**MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES**										
32	M4 CARBINE MODS (GB3007)				15,359		15,450		127,341		158,150
33	M2 50 CAL MACHINE GUN MODS (GB4000)	В					5,000		4,000		9,000
34	M249 SAW MACHINE GUN MODS (GZ1290)				5,232				13,556		18,788
35	M240 SAW MACHINE GUN MODS (GZ1300)	Α			5,272				3,591		8,863

# DEPARTMENT OF THE ARMY FISCAL YEAR (FY) 2007 PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES PROGRAM SUPPLEMENTAL

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

Activity: 02. \*\*Weapons and other Combat Vehicles\*\*

			(DOLS)			(	THOUSANDS C	F DOLLA	RS)		
	ITEM		FY 00		Y 2007		Y 2007		Y 2007		Y 2007
NO.	NOMENCLATURE	ID	UNIT		aseline		Title IX		plemental		Total
(1)	(2)	(2)	COST	QTY (5)	COST (6)	QTY	COST (8)	QTY	(10)	QTY (11)	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
36	PHALANX MODS (GL1000)								150,000		150,000
00	1440 DIFLE MODO (070000)				4 000				4 0 4 7		0.055
39	M16 RIFLE MODS (GZ2800)				1,008				1,947		2,955
40	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)	Α			1,693				21,454		23,147
	OUR ACTIVITY TOTAL				00.504		00.450		004 000		070.000
	SUB-ACTIVITY TOTAL				28,564		20,450		321,889		370,903
	**SUPPORT EQUIPMENT AND FACILITIES**										
41	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)				2,099				4,074		6,173
44	SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)				2,739				8,202		10,941
45	REF SMALL ARMS (G15400)								560		560
48	MACHINE GUN, CAL .50 M2 ROLL (GB2000)								32,480		32,480
49	XM320 GRENADE LAUNCHER MODULE (GLM) (G01501)	В							4,234		4,234
	SUB-ACTIVITY TOTAL				4,838				49,550		54,388
	ACTIVITY TOTAL				86,152		74,300		850,236		1,010,688

APPROPRIATION TOTAL 1,619,211 3,393,230 3,474,389 8,486,830

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BLIN	SSN	Nomenclature	Page
002	G80718	BRADLEY BASE SUSTAINMENT	1
005	G85100	STRYKER VEHICLE	8
006	GB1930	CARRIER, MOD	15
007	GZ2300	FIST VEHICLE (MOD)	19
009	GZ2400	BFVS SERIES (MOD)	
010	GA0400	HOWITZER, MED SP FT 155MM M109A6 (MOD)	32
012	GA0570	IMPROVED RECOVERY VEHICLE (M88 MOD)	40
014	GA0700	M1 ABRAMS TANK (MOD)	
015	GA0730	SYSTEM ENHANCEMENT PGM: SEP M1A2	
018	G01300	HOWITZER, LIGHT, TOWED, 105MM, M119	
020	G13000	M240 Medium Machine Gun (7.62mm)	
021	G12900	M249 SAW Machine Gun (5.56mm)	
022	G13400	MK-19 Grenade Machine Gun (40mm)	
023	G02200	Mortar Systems	
025	G01500	M107, CAL. 50, SNIPER RIFLE	
026	G01505	XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS)	
027	G14904	M4 Carbine	
028	G18300	SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS)	
029	G04700	Common Remotely Operated Weapons Station (CROWS)	
032	GB3007	M4 CARBINE MODS	
033	GB4000	M2 50 Cal Machine Gun MODS	
034	GZ1290	M249 SAW Machine Gun MODS	
035	GZ1300	M240 Medium Machine Gun MODS	
036	GL1000	PHALANX MODS	
039	GZ2800	M16 RIFLE MODS	
040	GC0925	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)	
041	GL3200	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	
044	GC0076	SMALL ARMS EQUIPMENT (SOLDIER ENH PROG)	
045	G15400	REF Small Arms	
048	GB2000	MACHINE GUN, CAL .50 M2 ROLL	
049	G01501	XM320 GRENADE LAUNCHER MODULE (GLM)	
050	GA0750	ABRAMS UPGRADE PROGRAM	67

# **Alphabetic Listing - Procurement of W&TCV, Army**

Nomenclature		SSN	BLIN	Page
ABRAMS UPGRADE PROGRAM	GA0750	050		67
BFVS SERIES (MOD)	GZ2400	009		24
BRADLEY BASE SUSTAINMENT	G80718	002		1
CARRIER, MOD	GB1930	006		15
Common Remotely Operated Weapons Station (CROWS)	G04700	029		121
FIST VEHICLE (MOD)	GZ2300	007		19
HOWITZER, LIGHT, TOWED, 105MM, M119	G01300	018		78
HOWITZER, MED SP FT 155MM M109A6 (MOD)	GA0400	010		32
IMPROVED RECOVERY VEHICLE (M88 MOD)	GA0570	012		40
ITEMS LESS THAN \$5.0M (WOCV-WTCV)	GL3200	041		178
M1 ABRAMS TANK (MOD)	GA0700	014		46
M107, CAL. 50, SNIPER RIFLE	G01500	025		105
M16 RIFLE MODS	GZ2800	039		166
M2 50 Cal Machine Gun MODS	GB4000	033		137
M240 Medium Machine Gun (7.62mm)	G13000	020		83
M240 Medium Machine Gun MODS	GZ1300	035		153
M249 SAW Machine Gun (5.56mm)	G12900	021		88
M249 SAW Machine Gun MODS	GZ1290	034		141
M4 Carbine	G14904	027		113
M4 CARBINE MODS	GB3007	032		126
MACHINE GUN, CAL .50 M2 ROLL	GB2000	048		186
MK-19 Grenade Machine Gun (40mm)	G13400	022		93
MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)	GC0925	040		172
Mortar Systems	G02200	023		98
PHALANX MODS	GL1000	036		161
REF Small Arms	G15400	045		184
SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS)	G18300	028		117
SMALL ARMS EQUIPMENT (SOLDIER ENH PROG)	GC0076	044		181
STRYKER VEHICLE	G85100	005		8
SYSTEM ENHANCEMENT PGM SEP M1A2	GA0730	015		73
XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS)	G01505	026		109
XM320 GRENADE LAUNCHER MODULE (GLM)	G01501	049		192

Exhibit P-40, Budget Iter	m Justificati	on Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 1 /	al No: Tracked combat vehic	eles			P-1	Item Nomencla	nture BASE SUSTAINM	ENT (G80718)		rebluary 2007	
Program Elements for Code B Items:		Code:		Other Re	lated Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					738						738
Gross Cost					2129.4						2129.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					2129.4						2129.4
Initial Spares											
Total Proc Cost					2129.4						2129.4
Flyaway U/C											
Weapon System Proc U/C					2.9						2.9

The Bradley Base Sustainment Program (BBSP) recapitalizes (RECAP) earlier variants of the Bradley to A2 Operation Desert Storm (ODS) and A3 variant. The Bradley A2 ODS provides greater lethality, survivability, and sustainability and teams with the M1A1 AIM (Abrams Integrated Management) tank. The Bradley A3 is not only more lethal, survivable, sustainable but also provides enhanced command and control, allows shared situational awareness and enemy/friendly force location. The Bradley A3 will maintain combat overmatch of current and future threat forces and teams with the M1A2 Abrams SEP (System Enhancement Program) tank. All systems will be acquired through the Bradley Integrated Management (BIM) process which is a partnership between the prime contractor BAE Corp and Red River Army Depot. The BIM process provides long-term sustainment and modernization of the Bradley Vehicle Fleet.

#### Justification:

FY2007 Main Supplemental procures 168 additional Bradley A3 Vehicles.

FY2007 Base Appropriation \$206.107 Million FY2007 Title IX (Bridge) Appropriation \$1402.500 Million FY2007 Main Supplemental Request \$520.800 Million FY2007 Total \$2129.407 Million

Exhibit P-5, Weapon WTCV Cost Analysis Appropriation/Budget Activity Procurement of W&TCV, Ar vehicles	/Serial No: my / 1 / Tracked com		Line Item No ADLEY BAS	menclature: E SUSTAINMEN	NT (G80718)		Weapon Syste	em Type:	Date:	February 2007
WTCV	ID		FY 05			FY 06			FY 07	
Cost Elements	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
BRADLEY BASE SUSTAINMENT (A2)Base Budget								77197	7	
BRADLEY BASE SUSTAINMENT (A2)Title IX								268600	120	2238
BRADLEY BASE SUSTAINMENT (A3)Base Budget								128910	61	2113
BRADLEY BASE SUSTAINMENT (A3)Title IX								1133900	389	2915
BRADLEY BASE SUSTAINMENT (A3)Main								520800	168	3100
Total:								2129407	,	

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 1 /		cles			P-1	Item Nomencla BRADLEY	ature BASE SUSTAINM	ENT (M2A3) (G80	717)		
Program Elements for Code B Items:		Code:	,	Other I	Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					618						618
Gross Cost					1783.6						1783.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					1783.6						1783.6
Initial Spares											
Total Proc Cost					1783.6						1783.6
Flyaway U/C											
Weapon System Proc U/C					2.9						2.9

The Bradley Base Sustainment Program for the M2/M3A3 Recapitalizes (RECAP) older variants of the Bradley into the A3 configuration. The A3 provides significant capability increases in the lethality, survivability, and sustainability over other Bradley platforms to retain combat overmatch. Specifically, the A3 conversion improves on the Operation Desert Storm (ODS) variant through the addition of two 2nd Generation Forward Looking Infrared (FLIR) devices, upgraded core electronics, improved ballistic fire control systems, enhanced command and control, situational awareness, and a collective Nuclear, Biological, and Chemical (NBC) protection system.

#### **Justification:**

FY2007 base appropriation procures 61 Bradley A3 RECAP vehicles in support of modularization and modernization of the Bradley fleet to meet modularity requirements supporting the Army Campaign Plan for the Heavy Brigade Combat Teams.

FY2007 Title IX (Bridge) Appropriation procures 389 RECAP vehicles in support of modularization and modernization of the Bradley fleet to meet modularity requirements supporting the Army Campaign Plan for the Heavy Brigade Combat Teams. All procured vehicles will include Operation Iraqi Freedom (OIF) identified requirements for Counter Improvised Explosive Device (IED) Electronic Warefare and Blue Force Tracking (BFT).

FY2007 Main Supplemental Request procures 168 Bradley A3 RECAP vehicles in support of modularization and modernization of the Bradley fleet to meet modularity requirements supporting the Army Campaign Plan for the Heavy Brigade Combat Teams. All procured vehicles will include Operation Iraqi Freedom (OIF) identified requirements for Counter Improvised Explosive Device (IED) Electronic Warefare and Blue Force Tracking (BFT).

FY2007 Base Appropriation \$128.910 Million FY2007 Title IX (Bridge) Appropriation \$1133.900 Million FY2007 Main Supplemental Request \$520.800 Million

FY2007 Total \$1783.610 Million

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Track vehicles	ked comb			menclature: E SUSTAINMEN	VT (M2A3) (G807	(17)	Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	ts	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, Base Budget									125965	61	2065
Fielding and Other Support, Base Budget									2945		
Sub Total, Base Budget									128910		
Hardware, Title IX									803242	389	2065
Fielding and Other, Title IX									330658		
Sub Total-Title IX									1133900		
Hardware, Main									483202	168	2876
Fielding and Other, Main									37598		
Sub Total-Main									520800		
Total:									1783610		

Exhibit P-5a, Budget Procu	rement Histor	y and Planning							Oate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked comb	at vehicles	Weapon System Type:		Nomenclature: ASE SUSTAINMENT (M2A	A3) (G80717)						
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
Hardware, Base Budget											
FY 2007 Base	BAE YORK PA	<b>L</b>	SS/FFP	TACOM	Nov 06	Mar 08	61	2065	yes		
Hardware, Title IX											
FY 2007 Title IX	BAE YORK PA	<b>L</b>	SS/FFP	TACOM	Nov 06	Mar 08	389	2065	yes		
Hardware (MAIN)											
FY 2007 MAIN	BAE YORK PA		SS/FFP	TACOM	Jul 07	Apr 09	168	2876	yes		

REMARKS:

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Ī	1												Rec	order				1							1					

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Series Procurement of W&TCV, Army / 1 /		cles			P-1	Item Nomencla	ature VEHICLE (G85100	)		1 cordary 2007	
Program Elements for Code B Items: 0603653A/C03		Code:	i	Other F	Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					211						211
Gross Cost					1760.2						1760.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					1760.2						1760.2
Initial Spares											
Total Proc Cost					1760.2						1760.2
Flyaway U/C											
Weapon System Proc U/C					8.3						8.3

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 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 Brigade Combat Team (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.

Exhibit P-40, Budget Item Justification	Sheet				Date:	February 2007
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicle	es			P-1 Item Nomenclature STRYKER VEHICLE (G85100)		
Program Elements for Code B Items: 0603653A/C03	Code:		Other Related Prog	ram Elements:		
NBC Reconnaissance Vehicle: The Nuclear, Biological,	Chemical Reco	nnaissa	ance Vehicle (NBC)	RV) provides on the move and remote near-re	al-time nuclear,	biological and chemical detection and

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.

#### Justification:

The FY07 Bridge Supplemental (\$107.130 million) procures support to additional Survivability Enhancements for Stryker Vehicles (both 1 inch SLAT and Common Ballistic Shields). Main Supplemental funding (\$857.685 million) procures vehicles that will support the following requirements: a) an additional increase in vehicles for the in country Ready to Fight fleet. These vehicles replace battle damaged as required; b) vehicles for Operational Repair Cycle Float which will mitigate the numbers of vehicles down during the Operational Repair Cycle; and, c) NBCRV vehicles to be delivered to HBCT units to displace to aging fleet of M93A1 Fox CBRN platforms. In addition to vehicle procurements, FY07 Supplemental funds will support additional Survivability Enhancements for Stryker vehicles (both Stryker Reactive Armor Tiles (SRAT) and one inch SLAT armor), Javelin capability to Stryker Remote Weapon Station (RWS) for Non-SBCT Stryker requirements, and various OIF operational and Safety fixes.

FY 2007 Base Appropriation -\$795.370 million FY 2007 Title IX (Bridge) Appropriation -\$107.130 million FY 2007 Main Supplemental Request -\$857.685 million FY 2007 Total -\$1,760.185 million Quantity 211 vehicles

Note: Originally in the FY07 Supplemental build the Stryker program was planning to acquire 220 vehicles to support the supplemental appropriation. In order to maximize the number of Stryker vehicles fielded, the Army authorized the PM to execute a contract modification (on 29 Sep 06) for 109 of the 220 vehicle requirement with FY05 & FY06 funding, thus achieving earlier fieldings. The requirement for the remaining Supplemental approved vehicles (quantity of 111) will be executed when a new contract is awarded this FY and funded with FY07 Main Supplemental funds. In order to accomplish the acquisition of the 109 vehicles, the PM had to defer the following requirements until FY07, and the PM will use FY07 Supplemental funds to acquire the following items: Additional quantities of Common Ballistic Shields (CBS), Stryker Reactive Armor Tiles (SRAT), 1 inch SLAT armor, and Government Furnished Equipment (GFE) supporting the 109 vehicles acquired at the end of FY06.

G85100 Item No. 5 Page 2 of 7 Exhibit P-40 STRYKER VEHICLE 9 Budget Item Justification Sheet

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity Procurement of W&TCV, A vehicles	y/Serial No: Army / 1 / Tracked comb			omenclature: ICLE (G85100)			Weapon Syste	em Type:	Date:	February 2007
WTCV	1	ID	<u> </u>	FY 05			FY 06			FY 07	
Cost Elemen	nts	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
Stryker Vehicles											
-Infantry Carrier Vehicle (ICV)		A									
-ICV Block Improvements											
-Reconnaissance Vehicle (RV)		A									
-RV Block Improvements											
-Anti-Tank Guided Missile Vehicle (ATGM)		A							21953	8	274
-ATGM Block Improvements									170		
-Mortar Carrier (MC)		A							9676	5	1935
-MC Block Improvements									948	3	
-Fire Support Vehicle (FSV)		A							11380	6	1897
-FSV Block Improvements									128	3	
-Engineer Squad Vehicle (ESV)		A							16350	6	2725
-ESV Block Improvements									128	3	
-Commander's Vehicle (CV)		A							73854	34	2172
-CV Block Improvements									725	5	
-Medical Evacuation Vehicle (MEV)		A							14371	. 8	1796
-MEV Block Improvments									170		
-NBC Reconnaissance Vehicle (NBCRV)		В							241487	61	3959
-NBCRV Block Improvements									1300		
-Mobile Gun System (MGS)		В							502576	83	6055
-MGS Block Improvements									1769	,	
Government Furnished Equipment/ASIOE									146920	)	
- Long Range Adv Scout Surveillance FS3									2622	2	
- Long Range Adv Scout Surveillance RV									12675	;	
- M707 Striker Mission Equipment Package									1045	;	
Engineering Change Proposal (ECP)									18989	)	
Basic Issue Items (BII)									2131		
- Government PVT									17574		
- Contractor Support to PVT									5972	2	
Comparison Evaluation											
Refurbishment of Test Vehicles						1					

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Tracket vehicles	ed comb		Line Item No RYKER VEH	omenclature: IICLE (G85100)			Weapon Syste	ет Туре:	Date:	February 2007
WTCV		ID	•	FY 05			FY 06	•		FY 07	
Cost Element	ts	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
Program Management Support (Govt)									50902		
System Fielding Support									96555		
Block Improvement Retrofit (Bde 1 & 2)									70909	•	
Initial Spares									35827		
Training Devices									31258		
System Technical Support (STS)									94286	5	
Post Deployment Software Support (PDSS)									14608		
Integrated Data Environment											
Award Fee											
Pre-Planned Product Improvements (P3I)											
Facilitization											
Mounted Mortar											
Survivability Enhancements									251177		
National Maint Work Requirements (NMWR)									9750		
Total:									1760185		

Exhibit P-5a, Budget Procurement	History and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	Weapon System Type:		Nomenclature: EHICLE (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	RFI Issu Dat
Stryker Vehicles										
FY 2007 Main Sup	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP	TACOM	Jul 07	Jul 08	111	3593	NA	NA	
FY 2007 Base	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP	TACOM	Jul 07	Sep 08	100	4928	NA	NA	

REMARKS: Unit cost for Stryker Vehicles is an average of all Stryker vehicle configurations procured on delivery orders issued in support of each funding source (Base and Main Supplemental), due to the acquisition of different variants the unit cost is different for each funded line (Base & Supplemental). Unit cost does not include Block Improvements and non PM Stryker costs (i.e. Radios, Sensors, etc).

		F	FY 07 /	08 BU	DGE	ΓPRO	ODU	CTIO	N SCI	HEDU	LE			P-1 ITE STRYK	M NOME ER VEHI								Dat	te:	Februa	ry 2007				
	C	OST	ELEN	IENTS	}						Fiscal `	Year 07	,										Fiscal Y	Year 08	3					
		S	PROC	ACCEP	BAL									Calenda	r Vear (	17								Cale	ndar Ye	ar 08				
M		Е	QTY	PRIOR	DUE		1						ı	T	1		I		1	1			_	1	1	ı	1	1		
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Str	yker Vel	icles																												
1	FY 07 Sup	A	111	0	111										A												9	17	5	80
1	FY 07 Base	A	100	0	100										A														12	88
	Dasc																													
																								<u> </u>						
																								<del>                                     </del>						
																								-						
Tot	al		211		211																						9	17	17	168
						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								PRODU	JCTION	RATES						A	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA	RKS				1
F											Reac	hed M	FR			Prie	or 1 Oct	Afte	r 1 Oct	Aft	ter 1 Oct	:	After 1	Oct	New co	ontract b	eginning	with F	Y07 veh	icle
R			Nan	ne - Locati	on		1	MIN	1-8-5	MAX	D-	+	1 In	itial			8		10		14		24	+	MS III		S and N	BCRV so	chedule	l for July
1	GM G MI	DLS De	efense Gr	oup L.L.C	., Shelby	Townsh	nip,	20	56	63			_	eorder			0		10		12		22	:	07. Due to	longer l	ead time	s, vehicl	es procı	red with
													-	itial				-								Base fundated that				
														eorder											Main S	Suppleme	ental fun	ding.		
													-	itial eorder				+							-					
														itial				+							1					
									·				_	eorder				+							1					
														itial				+							†					
														eorder				+							1					

G85100 STRYKER VEHICLE Item No. 5 Page 6 of 7

Exhibit P-21 Production Schedule

		F	FY 09 /	' 10 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	LE			P-1 ITEN STRYKI									Dat	te:	Februa	ry 2007				
	C	OST	ELEN	IENTS	}						Fiscal Y	ear 09	•										Fiscal Y	Year 10	1					
		S	PROC	ACCEP	BAL									Calenda	r Vear (	19								Cale	ndar Ye	ar 10				_
M		Е	QTY	PRIOR	DUE		ı	ı						T		ı			_	1			_	1				1		
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Str	yker Vel	nicles																												
1	FY 07 Sup	A	111	31	80	5	7	6	9	10	10	11	11	11																0
1	FY 07 Base	A	100	12	88	13	11	11	10	10	9	8	8	8																0
	Dasc																													
																										$\vdash$				
																										-				
To	tal		211	43	168		18	17	19	20	19	19	19	19																
						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							]	PRODU	CTION I	RATES						A	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA	RKS				
F											Reacl	ned M	FR			Prio	or 1 Oct	Afte	r 1 Oct	Aft	er 1 Oct		After 1	Oct	New co	ontract be	eginning	g with F	Y07 veh	icle
R			Nan	ne - Locati	on		N	MIN	1-8-5	MAX	D+	- 1	Init	ial			8		10		14		24		MS III		S and N	BCRV s	chedule	d for July
1	GM G MI	DLS De	efense Gr	oup L.L.C	., Shelby	Townsh	ip,	20	56	63				order			0		10		12		22		07. Due to	longer le	ead time	s, vehic	les proci	ured with
													Init													Base fund later that				
													Init	order				+							Main S	Suppleme	ental fur	ding.		
														order				+							1					
													Init			+		-							1					
														order				1							1					
													Init					+							1					
													-	order				+							1					

G85100 STRYKER VEHICLE Item No. 5 Page 7 of 7

Exhibit P-21 Production Schedule

Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 1 /		cles			P-1 Item Nomen CARRIE	clature ER, MOD (GB1930)				
Program Elements for Code B Items:		Code:	C	Other Related Progr	am Elements:					
	Prior Years	FY 2005	FY 20	006 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				4	56					456
Gross Cost				19	3					191.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				19	1.3					191.3
Initial Spares										
Total Proc Cost				19	.3					191.3
Flyaway U/C										
Weapon System Proc U/C					).4					0.4

The M113 Armored Personnel Carrier Family of Vehicles (FOV) consists of approximately 14,000 vehicles with 16 different variants in service in U.S. Army units. The M113 FOV is 40% of the tracked combat vehicle fleet in a Heavy Brigade Combat Team. The M113 FOV provides platforms for anti-tank, fire direction, smoke, mortar, cargo carrier and command & control systems. The fleet is expected to remain in service for the next 45 years and must be modified to increase mobility, and survivability. Enhancements to the M113 FOV also improves the reliability, sustainability, chemical protection, driver's night vision, fuel system, and Command Post Auxiliary Power Units.

### **Justification:**

FY 2007 Base Appropriation \$ 22.877 Million FY 2007 Title IX (Bridge) Appropriation FY 2007 Main Supplemental Request FY 2007 Total \$ 36.191 Million \$191.268 Million

The FY 2007 Main Supplemental Request procures an additional 121 A3 vehicle conversions in support of the Army's Campaign Plan for Heavy Brigade Combat Team modularity.

Exhibit P-40M,	Budget Item Justifi	cation Sheet						Date:	February 200	7	
Appropriation / Budget Acti	ivity / Serial No:				P-1 Item Nomeno	clature		•			
Procurement of	f W&TCV, Army / 1 / Tracked comb	oat vehicles			CAF	RRIER, MOD (GB	1930)				
Program Elements for Code	B Items:						Code:	Other F	Related Program Ele	ements:	
Description		Fiscal Years					1	•			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Prior Year Closed Modi	fications										
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A3 Conversions											
1-84-05-4026	Oper Capability	0.0	0.0	0.0	191.3	0.0	0.0	0.0	0.0	0.0	191.3
T-150 TRACK											
0-00-00-0000	Oper Capability	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Add-on Armor Upgrade	(AOA)										
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		0.0	0.0	0.0	191.3	0.0	0.0	0.0	0.0	0.0	191.3

Date:

February 2007

MODIFICATION TITLE: A3 Conversions [MOD 2] 1-84-05-4026

MODELS OF SYSTEM AFFECTED: M113 Family of Vehicles

#### DESCRIPTION / JUSTIFICATION:

Continues improvements to the M113A2 Family of Vehicles FOV) to enhance mobility, crew survivability, vehicle reliability and sustainability. Included is a new 275 horsepower turbocharged engine coupled with a new X200-4A transmission. This power train upgrade replaces less reliable components reducing Operations and Support costs while increasing mobility to keep up with the M1 Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. Vehicle conversion to the A3 configuration is executed in the Department of the Army Unit Set Fielding Priority sequence, at depot or contractor facilities.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

IPR Production Decision
TDP Available

May 86 June 86

Installation Schedule

Inputs Outputs

Pr Yr		FY	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
												6	69	89	90	90	90	22		
												6	69	89	90	90	90	22		

		FY	2010			FY 2	2011			FY :	2012			FY	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		456
Outputs																		456

METHOD OF IMPLEMENTATION:

Depot/Contractor

ADMINISTRATIVE LEADTIME:

FY 2007 - Nov 06

1 months

PRODUCTION LEADTIME: 11 months

FY 2008 -

Contract Dates: Delivery Dates: FY 2006 -FY 2006 -

FY 2007 - Sep 07

FY 2008 -

Date:

February 2007

MODIFICATION TITLE (cont): A3 Conversions [MOD 2] 1-84-05-4026

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	С	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
A3 Upgrades							456	122.6											456	122.6
M577A3 conversion to																				
M1068A3																				
Equipment								54.0												54.0
Data																				
PM Support (Govt)								1.0												1.0
System Technical Support (Ctr)								5.6												5.6
Other																				
Pre Conversion/Modification								5.6												5.6
FDT																				
TPF/BII								2.5												2.5
Installation of Hardware																				
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 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
Total Procurement Cost		0.0		0.0		0.0		191.3		0.0		0.0		0.0		0.0		0.0		191.3

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri- Procurement of W&TCV, Army / 1 /		cles			P-1	Item Nomencla FIST VEHI	ature CLE (MOD) (GZ230	00)			
Program Elements for Code B Items: 0203735A		Code:		Other Rel	lated Program	Elements:					
	Prior Years	FY 2005	FY 2	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					52						52
Gross Cost					162.2						162.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					162.2						162.2
Initial Spares											
Total Proc Cost					162.2						162.2
Flyaway U/C											
Weapon System Proc U/C											

The Bradley Fire Support Vehicle (BFIST) consists of two variants: M7 BFIST and A3 BFIST. BFIST replaces the aging M981 Fire Support Vehicle used for fire support planning, support, and execution for maneuver company commanders. The fire support team is attached to a Mechanized Infantry or Armor company and is primarily responsible for developing and executing fire support plans that enable success on the battlefield. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as other Bradley's in the maneuver units it supports. The M7 variant integrates a fire support Mission Equipment Package (MEP) onto an Operation Desert Storm (ODS) variant chassis. The A3 BFIST takes advantage of Bradley A3 technology and capability advancements to embed much of the fire support MEP functionality; what is not embedded is added as an engineering change proposal (ECP) to the chassis.

# **Justification:**

FY2007 Base Appropriation: \$ 15.950 Million FY2007 Title IX (Bridge) Appropriation: \$130.000 Million FY2007 Main Supplemental Request: \$ 16.257 Million FY2007 TOTAL \$ 162.207 Million

The FY 2007 Main Supplemental Request procures and fields 4 additional A3 BFIST vehicles in support of the Army's Campaign Plan for Heavy Brigade Combat Team modularity.

Exhibit P-5, Weapon WTCV Cost Analysi	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Track vehicles	ed comb	pat P-1	Line Item No	omenclature: (MOD) (GZ2300	)		Weapon Syste	em Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06	•		FY 07	
Cost Eleme	ents	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 Cost											
1. A3 BFIST Upgrade Kit (Bridge)									108726	48	2265
1. A3 BFIST Upgrade Kit (Main)									11345	5 4	2836
1. FLIR (Bridge)									8655	48	180
1. FLIR (Main)									870	4	218
SUBTOTAL									129596	5	
2. Engineering Production (Base)									7178	3	
2. Engineering Production (Bridge)									11020	)	
2. Engineering Production (Main)									2186	5	
3. Government Support (Base)									2275	5	
3. Government Support (Bridge)											
4. Fielding (Base)									5597	'	
4. Fielding (Bridge)									999		
4. Fielding (Main)									1856	5	
5. Test & Evaluation (Bridge)									600	)	
6. Support Equipment (Base)									900	)	
6. Support Equipment (Bridge)											
SUBTOTAL									32611		
Total:									162207		

Exhibit P-5a, Budget Procurement	History and Planning							Oate: Sebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	Weapon System Type:		Nomenclature: LE (MOD) (GZ2300)							
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	RFF Issue Date
1. A3 BFIST Upgrade Kit (Bridge) FY 2007	BAE York PA	SS/FFP	USATACOM, Warren, Mi	Nov 06	Apr 08	48	2265			
1. A3 BFIST Upgrade Kit (Main) FY 2007	BAE York PA	SS/FFP	USATACOM, Warren, Mi	Jul 07	Apr 09	4	2836			

REMARKS:

		F	Y 07 /	08 BU	DGET	ΓPRO	ODUC	CTIO	N SCI	HEDU	JLE				M NOME CHICLE (			))					Dat	e:	Februa	ry 2007				
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Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 1 /		cles		P	-1 Item Nomencl BFVS SEF	ature RIES (MOD) (GZ240	0)			
Program Elements for Code B Items:		Code:	Othe	er Related Program	m Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				184.	9					184.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				184.	9					184.9
Initial Spares										
Total Proc Cost				184.	9					184.9
Flyaway U/C										
Weapon System Proc U/C										
Description:										

This program procures and supports Bradley Reactive Armor Tiles (BRAT) for the Bradley Fighting Vehicle System (BFVS). BRAT are one of the High Survivability improvements to the 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 warheads as specific in the BFVS material need area. There are four configurations of tiles covering the vehicle front, sides and turret. BRAT is an add-on-force protection measure that provides Rocket Propelled Grenade (RPG) protection to the crew and passengers inside the vehicle during mission operations outside the Forward Operating Base (FOB).

### **Justification:**

FY2007 Base Appropriation \$69.707 Million FY2007 Title IX (Bridge) Appropriation \$0.000 Million FY2007 Main Supplemental Request \$115.190 Million

FY2007 Total \$184.897 Million

FY2007 Main Supplemental procures additional sets of Bradley Reactive Armor Tiles.

Exhibit P-40N	I, Budget Item Justifica	tion Sheet						Date:	February 2007		
Appropriation / Budget A	activity / Serial No:				P-1 Item Nomeno	clature		•			
Procuremen	t of W&TCV, Army / 1 / Tracked combat v	ehicles			BFV	S SERIES (MOD)	(GZ2400)				
Program Elements for Co	ode B Items:						Code:	Other R	elated Program Elem	ents:	
Description		Fiscal Years						l .			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Blue Force Tracking-l	Base Budget										
2-04-05-0004	Operational	0.0	0.0	0.0	17.9	0.0	0.0	0.0	0.0	0.0	17.9
BFVS High Priority In	mprovements-Base Budget										
1-98-05-4550	Operational	0.0	0.0	0.0	51.8	0.0	0.0	0.0	0.0	0.0	51.8
Bradley Reactive Arm	nor Tiles-MAIN SUPPLEMENTAL										
1-84-05-4038	Operational	0.0	0.0	0.0	115.2	0.0	0.0	0.0	0.0	0.0	115.2
Totals		0.0	0.0	0.0	184.9	0.0	0.0	0.0	0.0	0.0	184.9

Date:

February 2007

MODIFICATION TITLE: Blue Force Tracking-Base Budget [MOD 1] 2-04-05-0004

MODELS OF SYSTEM AFFECTED: Bradley Family of Vehicles Fleet

#### DESCRIPTION / JUSTIFICATION:

Blue Force Tracking (BFT) provides digital Force XXI Battle Command, Brigade-and-Below (FBCB2) Situational Awareness (SA) from the soldier/platform level up to Brigade-level. BFT provides real-time situational awareness and a Common Operating Picture (COP) with friendly and enemy unit graphic locations and target identification.

BFT is currently issued in a Thin Fielding package down to the Company Commander level and secondly as a Key Leader Option (KLO) package. BFT is currently being fielded to NON-EPLRS based FBCB2 Army Units. The BFT System consists of a FBCB2 V4 Appliqué Computer, PLGR, Comtech MTS-2011 L-Band Transceiver, A-Kit Brackets and harness.

FY04 BFT Thin Fielding supported Operation Iraq Freedom (OIF) rotational units. FY05-08 BFT fielding will support KLO fielding in selected units and OIF Rotational Units.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Requirements Document Complete Nov 02

First Unit Equipped (FUE) Mar 03

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Inputs
Outputs

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
									130	130	129	129								
									130	130	129	129								

	FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION: Installation

Contractor

ADMINISTRATIVE LEADTIME:

6 months

PRODUCTION LEADTIME: 12 months

Contract Dates:

FY 2006 - Apr 06

FY 2007 - Apr 07

FY 2008 -

Delivery Dates:

FY 2006 - Apr 07

FY 2007 - Apr 08

FY 2008 -

GZ2400 BFVS SERIES (MOD) Item No. 9 Page 3 of 8

Exhibit P-3A Individual Modification

Date: February 2007

MODIFICATION TITLE (cont): Blue Force Tracking-Base Budget [MOD 1] 2-04-05-0004

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				ı
Procurement																				ı
Kit Quantity							518	13.2											518	13.2
Installation Kits																				ı
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				ı
Training Equipment																				
Support Equipment																				ı
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				ı
FY 2007 Equip Kits							518	4.7											518	4.7
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	518	4.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	518	4.7
Total Procurement Cost		0.0		0.0		0.0		17.9		0.0		0.0		0.0		0.0		0.0		17.9

Date:

February 2007

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

MODELS OF SYSTEM AFFECTED: Bradley Family of Vehicles Fleet

#### DESCRIPTION / JUSTIFICATION:

The Bradley Fighting Vehicle Systems (BFVS) are expected to remain in service for the next 45 years. These vehicles represent the primary mechanized Infantry, Cavalry and Engineer forces complementary with the fielding of the Future Combat System. In order to remain viable and retain a strategic edge against ever-improving threat forces, several modifications will be incorporated on these systems. The production implementation of these improvements will be incorporated into the A3 production line, but vehicles built prior to the upgrades will require modifications based on spin-out technologies integrated into the platforms from Future Combat Systems (FCS) as well as current technologies, Chassis Modernization Embedded Diagnostics (CMED) and the Digital Vehicle Distribution Box (DVDB).

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation S	chedule
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Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008		FY 2009			
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
									522	522	522	521								
									522	522	522	521								

		FY 2	2010		FY 2011					FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Depot Teams

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 6 months

Contract Dates:

FY 2006 - Jan 06

FY 2007 - Jan 07

FY 2008 - Jan 08

Delivery Dates:

FY 2006 - Jul 06

FY 2007 - Jul 07

FY 2008 - Jul 08

Date: February 2007

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

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	Т	С	Tot	ıal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
CMED Driver Vision Upgrade							292	47.0											292	47.0
Reset Mods							551	3.8											551	3.8
INU/Talon																				
Heat Abatement																				ļ
Cargo Hatch																				
Other High Priority Mods																				ļ
Installation of Hardware																				
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits							2087	1.0											2087	1.0
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
2011 Equip kits																				
TOC Equip kits																				
Total Installment	0	0.0	0	0.0	0	0.0	2087	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2087	1.0
Total Procurement Cost		0.0		0.0		0.0		51.8		0.0		0.0		0.0		0.0		0.0		51.8

Date: February 2007

MODIFICATION TITLE: Bradley Reactive Armor Tiles-MAIN SUPPLEMENTAL [MOD 3] 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 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 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: 3Q03

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

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008		FY 2009				
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
																83	100	100	84		
																83	100	100	84		

		FY 2	2010		FY 2011					FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		367
Outputs																		367

METHOD OF IMPLEMENTATION: Troop Installed ADMINISTRATIVE LEADTIME: 6 months

Contract Dates: FY 2006 - N/A FY 2007 - N/A FY 2008 - N/A

Delivery Dates: FY 2006 - N/A FY 2007 - N/A FY 2007 - N/A

Date: February 2007

MODIFICATION TITLE (cont): Bradley Reactive Armor Tiles-MAIN SUPPLEMENTAL [MOD 3] 1-84-05-4038

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity							367	107.8											367	107.8
Installation Kits							394	6.4											394	6.4
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																				
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 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
Total Procurement Cost		0.0		0.0		0.0		115.2		0.0		0.0		0.0		0.0		0.0		115.2

Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 1 /		cles		F	-1 Item Nomencl	ature ER, MED SP FT 1551	MM M109A6 (MOI	D) (GA0400)	1 cordary 2007	
Program Elements for Code B Items:		Code:	Oth	ner Related Progra	m Elements:					
	Prior Years	FY 2005	FY 2006	5 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				44	.4					44.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				44	.4					44.4
Initial Spares										
Total Proc Cost				44	.4					44.4
Flyaway U/C										
Weapon System Proc U/C										

## **Description:**

This Howitzer Improvement Program (HIP) provides for the procurement of approved modifications to the 155MM Self-Propelled Howitzer. The funding profile funds selected Paladin System Improvements and retrofits those improvements on to fielded Paladins. The program included the Modular Artillery Charge System (MACS) Storage and Handling modifications which provides accessibility, noise reduction, positive restraint, and accommodates for future longer projectiles such as Excalibur. It also includes the Paladin Digitized Fire Control System (PDFCS) modification that replaces the current Automatic Fire Control System (AFCS) computer, power conditioning unit, keypad, display, and muzzle velocity radar, which addresses obsolescence, reliability, and soldier burden issues as well as provide for integration of Excalibur.

### Justification:

FY 2007 Main Supplemental procures the following Howitzer Improvement Program system improvement necessary for the vehicle to operate and interface with other systems on the battlefield: Automatic Fire Extinguishing System (AFES) Detection System.

FY 2007 Base Appropriation \$28.6 million FY 2007 Title IX (Bridge) Appropriation 0

FY 2007 Main Supplemental Request \$15.8 million

FY 2007 Total \$44.4 million

Exhibit P-40M	I, Budget Item Justifica	tion Sheet						Date:	February 2007		
Appropriation / Budget A	activity / Serial No:				P-1 Item Nomeno	clature		•			
Procurement	of W&TCV, Army / 1 / Tracked combat v	ehicles			HOV	WITZER, MED SP	FT 155MM M109	9A6 (MOD) (GA	0400)		
Program Elements for Co	de B Items:						Code:	Other I	Related Program Elen	nents:	
Description		Fiscal Years					1	<b>'</b>			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Howitzer Improvemen	nt Program - PDFCS									•	
1-81-05-1002	Unclassified	0.0	0.0	0.0	29.9	0.0	0.0	0.0	0.0	0.0	29.9
Chlorofluorocarbon (C	CFC Elimination)										
1-96-05-1003	Unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Howitzer Improvemen	nt Program - AFES (MOD 4)										
0-00-00-0000		0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	3.8
Howitzer Improvemen	nt Program - MACS Storage Racks										
1-81-05-1002	Unclassified	0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	10.
Totals		0.0	0.0	0.0	44.4	0.0	0.0	0.0	0.0	0.0	44.

Date: February 2007

MODIFICATION TITLE: Howitzer Improvement Program - PDFCS [MOD 1] 1-81-05-1002

MODELS OF SYSTEM AFFECTED: Howitzer, MED SP 155MM M109 Series (MOD)

### DESCRIPTION / JUSTIFICATION:

FY07-FY11 funding is for system improvements necessary for the vehicle to operate and interface with other systems on the battlefield - Modular Artillery Charge System (MACS) Storage and Handling and Paladin Digital Fire Control System (PDFCS). Without the MACS Storage and Handling improvement, Paladin would not be able to store the required Modular Charges and would not be able to accommodate longer projectiles such as the Excalibur. The current Paladin Automatic Computer Unit (ACU) based fire control system is no longer producible because of parts obsolescence. Due to growing unreliability problems with aging hardware and a known vulnerability to high temperature environments, Paladin operational readiness and availability requirements are at risk. The current Paladin ACU based fire control system is experiencing a higher rate of failure as ambient temperature climbs during hot months, both CONUS and OCONUS. PDFCS fixes the reliability, and vulnerability of the current Paladin ACU computer. In addition, the current Paladin ACU based fire control system is unable to support the urgent requirement to fire the Excalibur smart munition because the computer architecture is unable to support the needed additional capabilities. PDFCS is required for Excalibur integration into the system. Without these modernizations, the Army will not be able to provide the most combat effective fire support platform available to our war fighters.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

The M109A6 was approved for entry into full scale development in November 1984. At that time, DA decided to modify M109A2/A3 Howitzers to a HIP configuration. It was decided to merge the Howitzer Extended Life Program (HELP) in the HIP where kits from both programs would be applied to the M109A2/A3 Howitzer. The improved 155MM Self-Propelled Howitzer was approved for Type-Classification Low Rate Production (TC-LRP)and designated the M109A6 Howitzer following a Milestone III - A ASARC on 7 February 1990. In March 1993, a Milestone III Pre-ASARC review was chaired by the Assistant Secretary of the Army for Research, Development and Acquisition, and the M109A6 Paladin was approved for Type Classification - Standard and full rate production and deployment. This Milestone III is documented in Acquisition Decision Memorandum dated 9 April 1993. The Paladin production program completed deliveries of the multiyear contract ahead of schedule.

### Installation Schedule

Inputs
Outputs

Ŭ _																					
	Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ſ	174							22	22		23	23	22	24	24	23	23	48	48	47	47
	18	19	38	25	60	14		19	53		24	24	26	20	38	38	38	20	38	38	38

		FY	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	54	54	53	53	41	41	41	40	27									974
Outputs	20	38	38	38	20	38	38	38	20	40	38	20						974

METHOD OF IMPLEMENTATION: Production / ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 11 months

Contractor

 Contract Dates:
 FY 2006 FY 2007 FY 2008 

 Delivery Dates:
 FY 2006 FY 2007 FY 2008 

Item No. 10 Page 3 of 8

Date: February 2007

MODIFICATION TITLE (cont): Howitzer Improvement Program - PDFCS [MOD 1] 1-81-05-1002

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Equipment (PB)								15.0												15.0
Equipment (Main Supp)								9.6												9.6
Engineering Change Orders																				
Matrix Personnel Support								0.5												0.5
Data/Other								0.4												0.4
Life Cyc Cost Anal(Main Supp)								0.4												0.4
Proj Mgmt Admin (PB)								1.6												1.6
Proj Mgmt Admin (Main Supp)								1.9												1.9
Fielding								0.5												0.5
System Improvements																				
Installation of Hardware																				
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 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
Total Procurement Cost		0.0		0.0		0.0		29.9		0.0		0.0		0.0		0.0		0.0		29.9

Item No. 10 Page 4 of 8 35

Date: February 2007

MODIFICATION TITLE: Howitzer Improvement Program - AFES (MOD 4) [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Howitzer, MED SP 155MM M109 Series (MOD)

### DESCRIPTION / JUSTIFICATION:

This FAASV material change is for the new Automatic Fire Extinguishing System (AFES) Detection system. The need for the new AFES Detection System is due to the obsolescence and associated unaffordability of the existing AFES Detection System. The current AFES Detection System was designed with 1970's technology and integrated into the vehicle in the early 1980s. The Field Artillery Ammunition Support Vehicle (FAASV) is the only vehicle system in the Army that uses the current system produced and refurbished on a sole-source basis by Pacific Scientific. The new Kidde Dual Spectrum (KDS) Detection System has a great deal in common with the Stryker AFES; which reduces the overall logistics footprint within the Army and provides a larger production base thereby reducing production costs. This new AFES detection system has already been installed as part of the FY06 National Level RESET (NLR) program at Anniston Army Depot (ANAD) and will be installed in conjunction with the FY07 NLR program at ANAD. This material change is to start incorporating the new AFES system in the fielded vehicles.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Modification Work Order (MWO), MWO 9-2350-372-30-1 was released March 2006 Material change was applied to FAASV National Level RESET (NLR) in FY06

Material change being applied to FAASV NLR FY07

### Installation Schedule

ı	
Inputs	
1	
Outputs	

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
					30	30	30	30	75	75	75	75	98	98	98	97				
						30	30	29		30	30	26	54	84	84	62	54	84	84	62

		FY	2010			FY	2011			FY	2012			FY	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		811
Outputs		30	30	8														811

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 5 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -

GA0400 HOWITZER, MED SP FT 155MM M109A6 (MOD) Item No. 10 Page 5 of 8 36

Date: February 2007

MODIFICATION TITLE (cont): Howitzer Improvement Program - AFES (MOD 4) [MOD 3] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment								2.8												2.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Retrofit								1.0												1.0
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 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
Total Procurement Cost		0.0		0.0		0.0		3.8		0.0		0.0		0.0		0.0		0.0		3.8

Item No. 10 Page 6 of 8 Exhibit P-3A 37 Individual Modification

Date: February 2007

MODIFICATION TITLE: Howitzer Improvement Program - MACS Storage Racks [MOD 4] 1-81-05-1002

MODELS OF SYSTEM AFFECTED: Howitzer, MED SP 155MM M109 Series (MOD)

### DESCRIPTION / JUSTIFICATION:

FY07-FY11 funding is for system improvements necessary for the vehicle to operate and interface with other systems on the battlefield - Modular Artillery Charge System (MACS) Storage and Handling and Paladin Digital Fire Control System (PDFCS). Without the MACS Storage and Handling improvement, Paladin would not be able to store the required Modular Charges and would not be able to accommodate longer projectiles such as the Excalibur. The current Paladin ACU based fire control system is no longer producible because of parts obsolescence. Due to growing unreliability problems with aging hardware and a known vulnerability to high temperature environments, Paladin operation readiness and availability requirements are at risk. The current Paladin ACU based fire control system is experiencing a higher rate of failure as ambient temperature climbs during hot months, both CONUS and OCONUS. PDFCS fixes the reliability, and vulnerability of the current Paladin ACU computer. In addition, the current Paladin ACU based fire control system is unable to support urgent requirement to fire the Excalibur smart munition because the computer architecture is unable to support the needed additional capabilities. PDFCS is required for Excalibur integration into the system. Without these modernizations, the Army will not be able to provide the most combat effective fire support platform available to our war fighters.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

The M109A6 was approved for entry into full scale development in November 1984. At that time, DA decided to modify M109A2/A3 Howitzers to a HIP configuration. It was decided to merge the Howitzer Extended Life Program (HELP) in the HIP where kits from both programs would be applied to the M109A2/A3 Howitzer. The improved 155MM Self-Propelled Howitzer was approved for Type-Classification Low Rate Production (TC-LRP) and designated the M109A6 Howitzer following a Milestone III-A ASARC on 7 February 1990. In March 1993, a Milestone III Pre-ASARC review was chaired by the Assistant Secretary of the Army for Research, Development and Acquisition, and the M109A6 Paladin was approved for Type Classification - Standard and Full Rate Production and Deployment. This Milestone III is documented in Acquisition Decision Memorandum dated 9 April 1993. The Paladin production program completed deliveries of the multiyear contract ahead of schedule.

Insta	llation	Sc	hed	lu.	le
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Inputs
Outputs

Inputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
459			30	30	10	10	10		35	35	40	40	19	19	19	18	35	35	34	34
45	36	42	36	88	30	54	86	36	36	36	36	36	36	36	36	36	36	36	36	36

	FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	912
27																	912

METHOD OF IMPLEMENTATION:

Production/Contract ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 7 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -

GA0400 HOWITZER, MED SP FT 155MM M109A6 (MOD) Item No. 10 Page 7 of 8

38

Date: February 2007

MODIFICATION TITLE (cont): Howitzer Improvement Program - MACS Storage Racks [MOD 4] 1-81-05-1002

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	2	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Matrix Personnel Support								0.2												0.2
Data								0.3												0.3
Training Equipment																				
Vehicular Intercom System																				
Project Mgmt Admin								0.9												0.9
Fielding								2.7												2.7
System Improvements								6.6												6.6
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 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
Total Procurement Cost		0.0		0.0		0.0		10.7		0.0		0.0		0.0		0.0		0.0		10.7

Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 1		cles		F	-1 Item Nomeno	clature /ED RECOVERY VEI	HICLE (M88 MOD	(GA0570)		
Program Elements for Code B Items:		Code:		Other Related Progra	m Elements:					
	Prior Years	FY 2005	FY 20	006 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				14	1					141
Gross Cost				374	.4					374.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				374	.4					374.4
Initial Spares										
Total Proc Cost				374	.4					374.4
Flyaway U/C										
Weapon System Proc U/C				2	.7					2.7

## **Description:**

The M88A2 HERCULES (Heavy Equipment Recovery Combat Utility Lift and Evacuation System), 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 FY07 Main Supplemental Request (\$65.635M) procures a total of 22 M88A2 HERCULES utilizing the existing M88A1 chassis as the base vehicle and incorporating a new engine, 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 with a two fleet Abrams variants. 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 SEP. Without the improvements incorporated in the M88A2 HERCULES, units must use two recovery vehicles to perform the spectrum of recovery missions.

FY2007 Base Appropriation -\$ 36.347 Millions FY2007 Title IX (Bridge) Appropriation -\$ 272.400 Millions FY2007 Main Supplemental Request -\$ 65.635 Millions FY2007 TOTAL -\$ 374.382 Millions

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No Procurement of W&TCV, Army / 1 / T vehicles	: racked com			omenclature: COVERY VEHIO	CLE (M88 MOD)	(GA0570)	Weapon Syste	em Type: D	ate:	February 2007
WTCV		ID		FY 05			FY 06	•	•	FY 07	
Cost Element	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
FY07 Base Appropriation											
Vehicle Manufacturing - Contractor									22800	13	1754
Vehicle Manufacturing - GFE									2712		
Contractor Engineering									3885		
Project Management Support									2000		
Transportation									500		
Fielding (TPF & NET)									1200		
Testing (incl analysis & development)									1500		
Depot Maintenance - Premodification									1750		
<b>Base Appropriation Sub Total</b>									36347		
FY07 Title IX (Bridge) Appropriation											
Vehicle Manufacturing - Contractor									192389	106	1815
Facility Vehicle									2400		
Vehicle Manufacturing - GFE									13228		
Engine Re-Power									24900		
Engine Repower Facility Vehicle									1200		
Manufacturing - TAGS									4000	280	14
Constractor Engineering									17166		
Project Management - OGA									817		
Project Management Support									2000		
Transportation									2500		
Fielding (TPF & NET)									1041		
Testing (incl analysis & development)									1600		
Depot Maintenance - Premodification									9159		
Title IX (Bridge) Approp Sub Total									272400		
FY07 Main Supplemental Request											
Vehicle Manufacturing - Contractor									51864		2357
Vehicle Manufacturing - GFE									4725		
Contractor Engineering									4963		
Transportation Fielding (TPF & NET)									330 727		

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Track vehicles	ed comb		P-1 Line Item N MPROVED R		ICLE (M88 MOD)	(GA0570)	Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY 05	5		FY 06			FY 07	
Cost Elemen	ts	CD	Total Co	ost Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
Depot Maintenance - Premodification									3026	5	
Main Supplemental Request Sub Total									65635	5	
FY07 Total									374382	2	
Total:									374382	2	
		1	l		1	_1	LL		<u> </u>	1	

Exhibit P-5a, Budget Procurement	History and Planning							oate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	Weapon System Type:		Nomenclature: RECOVERY VEHICLE (M8	3 MOD) (GA057	(0)					
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
FY07 Base Appropriation										
FY 2007	BAE Systems York, PA	SS-FFP	TACOM	Nov 06	Jan 08	13	1754	YES		SEP 0
FY07 Title IX (Bridge) Appropriation										
FY 2007	BAE Systems York, PA	SS-FFP	TACOM	Nov 06	Jan 08	106	1815	YES		SEP 0
FY07 Main Supplemental Request										
FY 2007	BAE Systems York, PA	SS-FFP	TACOM	Jul 07	Sep 08	22	2357	YES		MAY (

REMARKS: The Sole Source Firm Fixed Price (SS-FFP) contract is in accordance with the Federal Acquisition Regulation (FAR) 6.302-1 (one responsible source). A new Class Justification & Approval (J&A) was approved by the Assistant Secretary of the Army for Acquisition, Logistics & Technology (ASAALT) 22 Mar 06 which grants approval for the FY06-11 quantity and dollar requirements. Option reflects amended budget.

		F	FY 07 /	08 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	LE			P-1 ITEN				CLE (M	188 MOE	O) (GA0:	570)		Dat	te:	Februar	ry 2007				
	C	OST	ELEN	IENTS							Fiscal `	Year 07											Fiscal Y	Year 08						
М		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 0	7								Caler	ıdar Yea	ar 08				-
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Ve	hicle Ma	nufactu	ring - Co	ntractor			1 -			_										-										1
1	FY 07 MAIN	A	22		22										A														1	21
1	FY 07 IX	A	106	0	106		A														8	9	9	9	9	9	9	9	9	26
1	FY 07 Base	A	13	0	13		A														2	1	1	1	1	1	1	1	1	3
																													<u> </u>	
																													<u> </u>	
																													—	
To	al		141		141																10	10	10	10	10	10	10	10	11	50
						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							-	PRODU	ICTION :	RATES		1 d N	ED				DMIN I				MFR		TOTA		REMA	RKS				
F			Non	ne - Locati			Ι,	MIN	1-8-5	MAY		hed M	_	1		Pri	or 1 Oct		r 1 Oct	AII	er 1 Oct		After 1							
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	1						-				+			order		-		1												
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		F	FY 09 /	10 BU	DGET	ΓPRO	ODUC	CTIO	N SCI	HEDU	LE			P-1 ITEN IMPROV				CLE (M	188 MOI	O) (GA0:	570)		Dat	te:	Februa	ry 2007				
	С	OST	ELEM	IENTS							Fiscal Y	Year 09											Fiscal Y	Year 10						
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year (	)9								Cale	ndar Ye	ar 10				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Ve	hicle Ma	nufactu	ring - Coi	ntractor			1			_				1																
1	FY 07 MAIN	A	22	1	21	1	1	1	3	3	2	2		2 2	2	2														0
1	FY 07 IX	A	106	80	26	9	9	8																						0
1	FY 07 Base	A	13	10	3	1	1	1																						0
																											<u> </u>		<u> </u>	
														1													<u> </u>			
To	al		141	91	50	11	11	10	3	3	2	2	2	2	2	2											<u> </u>			
						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	U L	A U G	S E P	
														•																
M								PRODU	CTION	RATES	١						DMIN I				MFR		TOTA		REMA	RKS				
F			N	T				M	105	34437		hed M	_			Prı	or 1 Oct		r 1 Oct	Aft	ter 1 Oct		After 1							
R 1	_	· · · · · · · · · · · · · · · · · · ·		ne - Locati	on		1	MIN 1	1-8-5 6	MAX 12	D-			itial			0	_	2		14		16		-					
. 1	BAE	systems	, York, P	4				1	0	12			_	eorder			0		10		14		24		-					
											+		-	itial order																
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-	1										1			itial				1							1					
	1							+		<del>                                     </del>	+	_		order				1							1					
								+			+	+	_	itial								-			1					
											1		<u> </u>	ordor											1					

Exhibit P-40, Budget Item	Justification	Sheet						Date:	E-h 2007	
									February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 1 /		cles		]	P-1 Item Nomenc M1 ABR	lature AMS TANK (MOD) (	GA0700)			
Program Elements for Code B Items:		Code:	О	ther Related Progr	am Elements:					
	Prior Years	FY 2005	FY 20	06 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				83′	7.7				1993.9	2831.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				83′	7.7				1993.9	2831.6
Initial Spares										
Total Proc Cost				83′	7.7				1993.9	2831.6
Flyaway U/C										
Weapon System Proc U/C										

## **Description:**

The M1 Abrams Tank (MOD) program applies Materiel Developer and Combat Developer approved modifications to the fielded Abrams family of vehicles and the M1A1 Abrams Integrated Management (AIM) RECAP Program. Situational Awareness (SA) incorporates System Enhancement Program (SEP) technologies into the M1A1 fleet from lessons learned during Operation Iraqi Freedom (OIF). Blue Force Tracking (BFT) is a digital Command and Control system that gives Army commanders across the battlefield current information about their location relative to friendly forces. Survivability improvements include Frontal Armor and Turret Side Armor upgrades. Tank Urban Survivability Kit (TUSK) is an add on kit for M1A1 and M1A2 series tanks to increase crew survivability in urban environments. The Power Train Improvement & Integration Optimization Program (i.e. Total Integration Engine Revitalization (TIGER) and Transmission Enterprise) provides more reliability, durability and a single standard for the vehicle's power train. Key safety improvements include the Driver's Night Viewer, Halon to Dry Powder, Inadvertent Fire Bottle, M829A3 Ballistic Solution and changes to prevent fires originating in the Nuclear, Biological and Chemical (NBC) filter system.

### Justification:

The FY 2007 Main Supplemental will complete the modification effort on the remaining 16 M1A1 AIM vehicles and fund a small portion of the Tank Urban Survivability Kit (TUSK) program.

FY 2007 Base Appropriation - \$ 187.7 million FY 2007 Title IX (Bridge) Appropriation - \$ 574.7 million FY 2007 Main Supplemental Request - \$ 75.3 million FY 2007 Total - \$ 837.7 million

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Date: Exhibit P-40M, Budget Item Justification Sheet February 2007 Appropriation / Budget Activity / Serial No: P-1 Item Nomenclature Procurement of W&TCV, Army / 1 / Tracked combat vehicles M1 ABRAMS TANK (MOD) (GA0700) Program Elements for Code B Items: Code: Other Related Program Elements: Fiscal Years Description OSIP No. Classification FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 TC Prior Yrs. FY 2011 Total Prior Year Closed Mod's 0-00-00-0000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Abrams Field Upgrades 1-97-05-4534 Operational 0.0 0.0 0.0 43.6 0.0 0.0 0.0 0.0 0.0 43.6 Abrams Integrated Management (AIM) 2-04-05-0009 Operational 0.0 0.0 0.0 113.4 0.0 0.0 0.0 0.0 0.0 113.4 Driver's Hatch Interlock (DHI) 1-97-05-4520 Safety 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 NBC Fire Prevention 1-97-05-4524 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Safety Frontal Armor 00000000000 Operational 0.0 0.0 0.0 219.6 0.0 0.0 0.0 0.0 0.0 219.6 Improved Turret Side Armor 1-99-05-4555 Operational 0.0 0.0 0.0 18.3 0.0 0.0 0.0 0.0 0.0 18.3 Eye-Safe Laser Rangefinder (ESLRF) 1-99-05-4563 Safety 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 **Engineering Support** 0-00-00-0000 Operational 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Advanced Ammunition Integration 1-01-05-0011 Operational 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.7 0.0 2.7 Power Pack Improvement & Integration Optimization 2-04-05-0008 Operational 0.0 0.0 0.0 213.8 0.0 0.0 0.0 0.0 0.0 213.8 Other Safety or Environmental Mods 2-04-05-0010 Safety 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Other Operational Enhancements 2-04-05-0011 Operational 0.0 0.0 0.0 21.3 0.0 0.0 0.0 0.0 0.0 21.3 Situational Awareness (SA) 2-04-05-0012 190.0 Operational 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 190.0

GA0700 M1 ABRAMS TANK (MOD) Item No. 14 Page 2 of 27 47 Exhibit P-40M Budget Item Justification Sheet

Exhibit P-40M	I, Budget Item Justif	cation Sheet						Date:	February 2007		
Appropriation / Budget A	ctivity / Serial No:				P-1 Item Nomeno	clature					
Procurement	of W&TCV, Army / 1 / Tracked com	oat vehicles			M1 .	ABRAMS TANK	MOD) (GA0700)				
Program Elements for Coo	de B Items:						Code:	Other R	elated Program Eler	ments:	
Description		Fiscal Years						L			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Blue Force Tracking											
2-04-05-0007	Operational	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	15.0
Totals		0.0	0.0	0.0	837.7	0.0	0.0	0.0	0.0	0.0	837.7

																				<u> </u>	F.1	2007			
MODIFICATION	TITLE AL	F' 1	1.7.71	DAOL	21.1			L MOD	IFIC	ATION									1	Date:	Februar	y 2007			
MODIFICATION	IIILE: Ab	rams Fiel	a Upgrad	es [MOL	) 2] 1-	-97-05-4	1534																		
MODELS OF SYS	TEM AFFI	ECTED: 1	M1A1 an	d M1A2	series	S																			
DESCRIPTION / J Provides funding operational definjury or damaş be applied as no DEVELOPMENT	ng for con iciencies, ge to equi eeded for	mponen, improvipment, the dur	ve reliab and me ration o	oility ar eet envi f Abrar	nd m ronn ns fie	aintair nental elding	nability protect Quan	, correction star	et fau ndare	lty perf Is ident	formai ified o	nce or during	quality testing	y, red g, trai	uce lo	ogistic exerci	al sup	port r	equire: nbat.	ments, a	standaro re no se	dize equ et quan	uipmen tities; u	t, preve pgrade	s will
Installation Schedu		MAJOR	DEVELC	PMENT	VIIL	ESTON	E(3):																		
		Pr Yr			FY 20	005				FY 2006				FY	2007				FY	2008			FY	2009	
	,	Totals		1 :	2	3	4	1	2	2 3	;	4	1	2	3	3	4	1	2	3	4	1	2	3	4
Inputs																									
Outputs																									
		EV	2010				FY 2011	1			FV	2012				FV	2013					То			Totals
	1	2	3	4	1			3	4	1	2	3	4		1	2	3	4	ļ.		Co	mplete			Totals
Inputs																						1			
Outputs																									
METHOD OF IM	PLEMENTA	ATION:	Con	tractor T	eams'	AD	MINIST	RATIVE	ELEA	DTIME:		0 mor	nths			PRODI	JCTION	LEAI	OTIME:	0 moi	nths				
Contract Dates:			FY	2006 -								FY 20	007 -						F	FY 2008 -					
Delivery Dates:			FY	2006 -								FY 20	007 -						I	FY 2008 -					

MODIFICATION TITLE (cont): Abrams Field Upgrades [MOD 2] 1-97-05-4534

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																	I			
Kit Quantity																		,		
Installation Kits																		,		
Installation Kits, Nonrecurring																		,		
Equipment																	I			
Equipment, Nonrecurring																		,		
Engineering Change Orders																		,		
Data																		,		
Training Equipment																	I			
Support Equipment																		,	1	
Other																		, ,	1	
Interim Contractor Support																	I			
Installation of Hardware																		, ,	1	
FY2003 & Prior Equip Kits																	I			
FY2004 Equip Kits																		, ,	1	
FY2005 Equip Kits																		, ,	1	
FY2006 Equip Kits								43.6										, ,	1	43
FY2007 Equip Kits																		, ,	1	
FY2008 Equip Kits																		, ,	1	
FY2009 Equip Kits																		, ,		
FY2010 Equip Kits																		, ,		
TC Equip- Kits																		,		
Total Installment	0	0.0	0	0.0	0	0.0	0	43.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	43
Total Procurement Cost		0.0		0.0		0.0		43.6		0.0		0.0		0.0		0.0		0.0	i	43

Date:

February 2007

MODIFICATION TITLE: Abrams Integrated Management (AIM) [MOD 3] 2-04-05-0009

MODELS OF SYSTEM AFFECTED: M1A1

### DESCRIPTION / JUSTIFICATION:

This encompasses modifications in support of the M1A1 Abrams Integrated Management (AIM) [Depot Overhaul] Program. It includes replacement of halon in the tank engine compartment's fire extinguishers; the additions of Precision Lightweight GPS Receiver (PLGR) [to derive position within 10 meters by receiving and interpreting satellite signals]; Block G Mods [to correct problems found during live-fire testing and combat]; Pulse-Jet System (PJS) to improve engine air filtration; and mitigation of electronics obsolescence by replacing the analog hull and turret network boxes with digital units.

## DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Various - Milestones differ for individual Modifications noted above.

Installation	Schedul	e
--------------	---------	---

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY :	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
													48	45	45	48	45	45	45	45
														50	50	50	50	55	55	56

_																		
		FY	2010			FY	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		366
Outputs																		366

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months

Contract Dates: FY 2006 - Dec 06 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - Jan 08 FY 2007 - FY 2008 -

Date: February 2007

MODIFICATION TITLE (cont): Abrams Integrated Management (AIM) [MOD 3] 2-04-05-0009

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits							366	113.4											366	113.4
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2003 & Prior Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits									366										366	
FY 2007 Equip Kits																				
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
TC Equip Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	366	0.0	0	0.0	0	0.0	0	0.0	0	0.0	366	0.0
Total Procurement Cost		0.0		0.0		0.0		113.4		0.0		0.0		0.0		0.0		0.0		113.4

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				IND	IVIDUA	L MODI	FICATI	ON							D	ate:	Februar	y 2007			
MODIFICATION TI	TLE: Frontal Armor	[MOD 6]	0000000	00000																	
MODELS OF SYSTI	EM AFFECTED: Ab	rams FOV																			
DESCRIPTION / JUST This modification the Department of DEVELOPMENT ST	n to the M1A1 Alof Energy (DOE).	Note th	at appl	lication	costs a							surviva	bility to	o the so	oldiers i	n the fi	eld. Fro	ontal ar	mor is p	oroduce	ed by
Installation Schedule																					
	Pr Yr		FY	2005			FY	2006			FY	2007			FY	2008			FY 2	2009	
1	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					
•	FY 201	.0			FY 2011				FY 2012	2			FY 2013	3				То			Totals

Outputs		
METHOD OF IMPLE	EMENTA	TION:

OGA

3

2

ADMINISTRATIVE LEADTIME:

4

3

3 months

3

2

PRODUCTION LEADTIME:

4

2

10 months

Complete

Contract Dates:

Inputs

FY 2006 - Jan 06

4

FY 2007 - Jan 07

4

FY 2008 - Jan 08

Delivery Dates:

FY 2006 - Oct 06

FY 2007 - Oct 07

FY 2008 - Oct 08

MODIFICATION TITLE (cont): Frontal Armor [MOD 6] 000000000000

FINANCIAL PLAN: (\$ in Millions)

			1																	
	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other								219.6												219.6
Interim Contractor Support																				
Installation of Hardware																				
FY2003 & Prior Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 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
Total Procurement Cost		0.0		0.0		0.0		219.6		0.0		0.0		0.0		0.0		0.0		219.6

#### Date: February 2007 INDIVIDUAL MODIFICATION MODIFICATION TITLE: Improved Turret Side Armor [MOD 7] 1-99-05-4555 MODELS OF SYSTEM AFFECTED: Abrams FOV DESCRIPTION / JUSTIFICATION: This modification provides better protection against rocket propelled grenade attacks on the turret sides of the crew compartment. The new design will significantly enhance survivability. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S): Preliminary Design Review......PLANNED: 4Q98 ACCOMPLISHED: 4Q98 VAL/VER Ballistic Testing.......PLANNED: 4Q00 ACCOMPLISHED: 4Q00 Critical Design Review......PLANNED: 3Q99 ACCOMPLISHED: 3Q99 Production Contract Award.......PLANNED: 1001 ACCOMPLISHED: 1001 Tech Data Package Available.......PLANNED: 4Q00 ACCOMPLISHED: 4Q00 Installation Schedule Pr Yr FY 2005 FY 2009 FY 2006 FY 2007 FY 2008 2 2 3 4 2 3 4 2 3 4 3 4 2 3 4 Totals 1 Inputs Outputs

		FY 2	2010			FY 2	2011			FY 2	2012			FY	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		
			-															

METHOD OF IMPLEMENTATION: Contr Team ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months Contract Dates: FY 2006 - Nov 07 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

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MODIFICATION TITLE (cont): Improved Turret Side Armor [MOD 7] 1-99-05-4555

FINANCIAL PLAN: (\$ in Millions)

			1																	
	Prior	r Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other								18.3												18.3
Interim Contractor Support																				
Installation of Hardware																				
FY2003 & Prior Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 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
Total Procurement Cost	_	0.0		0.0		0.0		18.3		0.0		0.0		0.0		0.0		0.0		18.3

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Date: February 2007

MODIFICATION TITLE: Advanced Ammunition Integration [MOD 10] 1-01-05-0011

MODELS OF SYSTEM AFFECTED: M1A1 = 4327; M1A2 = 588 TOTAL = 4915

### DESCRIPTION / JUSTIFICATION:

This modification is for the changes to the Abrams tank fire control system needed to fire the new M829A3 kinetic energy (KE) round for the 120mm main gun. This includes a programmable Computerized Electronics Unit (CEU), software changes and modifying the existing Gunner's Auxiliary Sight (GAS) to include an appropriate reticle to be able to fire the M829A3. The new ammunition capability will significantly enhance the tank's ability to penetrate the enemy's armor at extended ranges.

## DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Preliminary Design Review.......PLANNED: 1Q00......ACCOMPLISHED: 1Q00 Critical Design Review......PLANNED: 1Q02......ACCOMPLISHED: 3Q02 Type Class - STD.......PLANNED: 4Q02......ACCOMPLISHED: 4Q02 Initial Operational Capability......PLANNED: 4Q03......ACCOMPLISHED: 2Q04

### Installation Schedule

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
									307	307	307	308								
									307	307	307	308								

		FY	2010			FY 2	2011			FY :	2012			FY	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		1229
Outputs																		1229

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months Contract Dates: FY 2006 - Nov 07 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - Aug 08 FY 2007 - FY 2008 -

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Date: February 2007

MODIFICATION TITLE (cont): Advanced Ammunition Integration [MOD 10] 1-01-05-0011

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO		То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity							1229												1229	
Installation Kits								2.1												2.1
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2003 & Prior Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits							1229	0.6											1229	0.6
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	1229	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1229	0.6
Total Procurement Cost		0.0		0.0		0.0		2.7		0.0		0.0		0.0		0.0		0.0		2.7

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Date:

February 2007

MODIFICATION TITLE: Power Pack Improvement & Integration Optimization [MOD 11] 2-04-05-0008

MODELS OF SYSTEM AFFECTED: M1A2 SEP, M1A1

### DESCRIPTION / JUSTIFICATION:

Installation Schedule

This modification is intended to reduce the Operating and Support (O&S) cost of the Abrams Tank power train. It will equip the active component Abrams fleet with more reliability, durability and provide a single standard for vehicle's power train. This modification includes the Total Integration Engine Revitalization (TIGER) program, Transmission Enterprise and Non Primary Power Source (NPS). The TIGER Program is a tailored Performance Based Logistics (PBL) program to support the AGT 1500 Engine Overhaul line. Installation schedule below refers to the number of vehicles being upgraded by the Transmission Enterprise kit. Installation costs are included in contractor charges and are not broken out separately.

## DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Various - Milestones differ for individual modifications noted above.

		Pr Yr			FY 2	2005			F	Y 2006				FY	2007			FY	2008			FY	2009	
	,	Γotals		1	2	3	4	1	2	3		4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																								
Outputs																								
	FY 20						FY 201	1			FY	2012				FY 201	.3				То			Totals
	1	2	3	4	1		2	3	4	1	2	3	4	ļ	1	2	3	4		Co	mplete			
Inputs																								
Outputs											·									•		•	•	•

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2006 - Dec 07 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - Dec 08 FY 2007 - FY 2008 -

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Date: February 2007

MODIFICATION TITLE (cont): Power Pack Improvement & Integration Optimization [MOD 11] 2-04-05-0008

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TC		To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment								213.8												213.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2003 & Prior Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 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
Total Procurement Cost		0.0		0.0		0.0		213.8		0.0		0.0		0.0		0.0		0.0		213.8

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Date:

February 2007

MODIFICATION TITLE: Other Operational Enhancements [MOD 13] 2-04-05-0011

MODELS OF SYSTEM AFFECTED: M1A1, M1A2

## DESCRIPTION / JUSTIFICATION:

This modification includes an interim Auxiliary Power Unit (APU) solution that will power the tank's electrical systems without operating the main engine, an added stowage bracket and cover to accommodate two M4 Carbines and a profile verification program (PVP) and a Counter Improvised Explosive Device Kit to enhance crew survivability. Quantities are not listed as they will vary depending on individual tank configuration. Contract date will likely also vary by item and cannot be predicted.

## DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Items described above will have varying milestones and quantities.

T 4 13		0 1	1 1	1 1	
Instal	Iafi∩n.	>C	nea	m	e

Inputs
Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<u>'</u>	
Inputs	
Outputs	

	FY 2	2010			FY	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION:

Contractor/Depot

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 9 months

Contract Dates:

FY 2006 - Jan 06

FY 2007 - Dec 06

FY 2008 - Dec 07

Delivery Dates:

FY 2006 - Sep 06

FY 2007 - Sep 07

FY 2008 - Sep 08

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MODIFICATION TITLE (cont): Other Operational Enhancements [MOD 13] 2-04-05-0011

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	T	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits								20.9												20.
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2003 & Prior Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits								0.4												0.
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.4	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		21.3		0.0		0.0		0.0		0.0		0.0		21.

GA0700 M1 ABRAMS TANK (MOD) Item No. 14 Page 17 of 27 62

Date:

FY 2008 -

February 2007

MODIFICATION TITLE: Situational Awareness (SA) [MOD 14] 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 and the Counter Improvised Explosive Device (CIED) Kits. Components of these kits will be integrated into the Abrams FOV.

## DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Various - Milestones differ for individual Modifications noted above.

Installation dollars in included in contractor costs and not broken out separately.

FY 2006 - Nov 07

		[nsta]	u	la	ti	on	١S	c	h	e	d	u	le	
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Inputs Outputs

Contract Dates:

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

		FY 2	2010		FY 2011					FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

FY 2007 -

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 15 months

Delivery Dates: FY 2006 - May 08 FY 2007 - FY 2008 -

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MODIFICATION TITLE (cont): Situational Awareness (SA) [MOD 14] 2-04-05-0012

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits								190.0												190.
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2003 & Prior Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 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.
Total Procurement Cost		0.0		0.0		0.0		190.0		0.0		0.0		0.0		0.0		0.0		190.

Date: I

February 2007

MODIFICATION TITLE: Blue Force Tracking [MOD 15] 2-04-05-0007

MODELS OF SYSTEM AFFECTED: Abrams FOV

### DESCRIPTION / JUSTIFICATION:

Blue Force Tracking (BFT) is a digital Command and Control system that gives Army commanders across the battlefield current information about their location relative to friendly forces. Earth orbiting satellites transmit Global Positioning System (GPS) signals to the Precision Lightweight Global Positioning System Receiver (PLGR) or Defense Advanced GPS Receiver (DAGR). The GPS data is then fed to the Force XXI Battle Command - Brigade and Below (FBCB2) computer system which plots the precise location of each BFT equipped combat platform on a resident digital map. The enhanced situational awareness provided by BFT will reduce friendly fire incidents and increase combat effectiveness. There are no set quantities; Modifications will be applied as required by the deployment schedule.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Engineering development.........Planned: 2Q03 Accomplished: 2Q03

TM Completion......Planned: 4Q06 MWO Completion......Planned: 4Q06

Installation Schedule

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008		FY 2009			
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

		FY 2	2010			FY 2011					2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Ī																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2006 - Mar 07 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2007 -

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MODIFICATION TITLE (cont): Blue Force Tracking [MOD 15] 2-04-05-0007

FINANCIAL PLAN: (\$ in Millions)

	Prior	r Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits								15.0												15.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2003 & Prior Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 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
Total Procurement Cost		0.0	)	0.0		0.0		15.0		0.0		0.0		0.0		0.0		0.0		15.0

GA0700 M1 ABRAMS TANK (MOD) Item No. 14 Page 21 of 27 66

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri- Procurement of W&TCV, Army / 1 /		eles			P-1	Item Nomencla	ature UPGRADE PROGRA	AM (GA0750)			
Program Elements for Code B Items:		Code:		Other R	elated Program	Elements:					
	Prior Years	FY 2005	FY 2	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					73						73
Gross Cost					596.4						596.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					596.4						596.4
Initial Spares											
Total Proc Cost					596.4						596.4
Flyaway U/C											
Weapon System Proc U/C					8.2						8.2

This is the production program for the M1A2 System Enhancement Program (SEP) tank, the successor to the M1A2, which was the Army's first fully digital ground combat system. The prime contractor is using depot refurbished tank hulls supplied by the Government. Therefore, for each M1A2 SEP tank produced, there will be a corresponding decrease in the Army's tank inventory. SEP refers to a System Enhancement Package, which upgrades the M1A2's computer systems and its night vision capabilities. The first M1A2 SEP tank was delivered to the Government on 1 September 1999. The SEP tank has better microprocessors; color flat panel displays, more 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 SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology.

#### **Justification:**

FY2007 Main Supplemental to procure 73 M1A2v2 Vehicles

FY 2007 Base Appropriation: \$ 0 FY 2007 Title IX (Bridge) Appropriation: \$ 0

FY 2007 Main Supplemental Request: \$596.351 Million

FY 2007 Total: \$596.351 Million

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Exhibit P-40 Budget Item Justification Sheet

Exhibit P-5, Weapon WTCV Cost Analysis  Appropriation/Bud Procurement of V vehicles	get Activity/Serial No: V&TCV, Army / 1 / Tracked con	nbat	P-1 Line Item I ABRAMS UPO	Iomenclature: FRADE PROGRAM	M (GA0750)		Weapon Syste	m Type:	Date:	February 2007
WTCV	ID		FY 0:	5		FY 06			FY 07	
Cost Elements	CD	Total	Cost Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$0	00 Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Basic Vehicle	A							301855	73	4135
II Gen FLIR	A							29054	1 73	398
GFE Upgrade	A							60590	)	
Armor	A							51100	73	700
Depot Maintenance Pre-Mod	A							37084	4 73	508
Fixed Costs (STS, TPF, ST&TS, Govt Spt)	A							116668	3	
Total:								596351	1	

Exhibit P-5a, Budget Procurement	<b>History and Planning</b>							Oate: February	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	Weapon System Type:		Nomenclature: GRADE PROGRAM (GA075	0)						
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
Basic Vehicle										
FY 2007	GDLS Sterling Heights, MI	SS/FFP	TACOM, Warren	Jun 07	May 10	73	4135			
II Gen FLIR										
FY 2007	Various Various	Option	CECOM	Jun 07		73	398			
Armor										
	Battelle Energy Alliance (BEA) Idaho Falls, ID	SS/CPFF	Department of Energy	Jun 07		73	700			

		F	FY 07 /	08 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	JLE			P-1 ITEN ABRAM				M (GA(	)750)				Dat	te:	Februa	ry 2007				
	C	OST	ELEN	IENTS							Fiscal	Year 07											Fiscal Y	Year 08						
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year (	7								Cale	ndar Ye	ar 08				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E	J A	F E	M A	A P	M A Y	J U	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A	A P	M A Y	J U	J U	A U	S E P	Later
Rac	sic Vehic	le le	1			1	V	С	N	В	R	R	Y	N	L	G	P	1	V	C	N	В	R	R	Y	N	L	G	P	
	FY 07	A	73	0	73									A																73
			-																											
Tot	al		73		73																									73
						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	
	ı						,													1					1					•
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		F	Y 09 /	10 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	ILE				M NOMI IS UPGR			M (GA0	0750)				Dat	te:	Februa	ry 2007				
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F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Bas	ic Vehic	le							I.					ı							Į.					ı	ı			
1	FY 07	A	73	0	73																				6	6	6	6	6	43
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•																														
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						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	
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M F							-	PRODU	ICTION	RATES		hed M	ED				DMIN I or 1 Oct		r 1 Oct	4	MFR ter 1 Oct		TOTA		REMA	RKS				
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													Ini	order											4					

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		F	FY 11 /	12 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	JLE			P-1 ITEN ABRAM				M (GAC	0750)				Dat	te:	Februa	ry 2007				
	C	OST	ELEM	IENTS							Fiscal `	Year 11											Fiscal Y	Year 12						
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 1	1								Cale	ndar Ye	ar 12				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Bas	sic Vehic	le:				1		C	11	ь	K	K	1	14	ь	G	1	1	•	C	14		K	K		14	ь	- G	•	
_	FY 07	A	73	30	43	6	6	6	6	6	6	7																		0
Tot	al		73	30	43	6	6	6	6	6	6	7																		
						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	
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M								PRODU	ICTION	RATES						Α	DMIN I	LEAD T	IME		MFR		TOT	AL	REMA	RKS				
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R	_			ne - Locati	on		1	MIN	1-8-5	MAX	D-	+	1 Ini	tial			0		9		24		33							
1	JSMC.	Lima,	OH					5	25	70			Re	order			0		0		0		0							
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Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 1		cles			P-1 Item Nome	enclature EM ENHANCEMENT	PGM: SEP M1A2 (G	A0730)		
Program Elements for Code B Items:		Code:		Other Related Progr	am Elements:					
	Prior Years	FY 2005	FY 20	006 FY 2007	FY 200	8 FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				2	238					238
Gross Cost				119	5.4					1195.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				119	5.4					1195.4
Initial Spares										
Total Proc Cost				119	5.4					1195.4
Flyaway U/C										
Weapon System Proc U/C					5.0					5.0

This program upgrades M1A2 tanks to the newer System Enhancement Package (SEP) configuration. It will upgrade the M1A2's computer systems and night vision capabilities. The SEP tank has improved microprocessors; color flat panel displays, more 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 SEP tank include the improved thermal imaging capabilities of the new Block I 2nd Generation Forward-Looking Infra-Red (FLIR) technology.

#### **Justification:**

FY2007 Base Appropriation: \$170,410 Millions Qty 34 FY2007 Title IX (Bridge) Appropriation: \$700,000 Millions Qty 146 FY2007 Main Supplemental Request: \$325,000 Millions Qty 58 FY2007 Total \$1,195 Millions Qty 238

The FY2007 Main Supplemental enables completion of the required M1A2 SEP fieldings to the 1st Armor Division (1AD) and begins fielding of M1A2 SEPs to the Third Infantry Division (3ID). The funding in the main supplemental will begin equipping the 3ID with objective configuration M1A2 SEP tanks, providing the soldiers with a substantial improvement in combat power, increased crew survivability and improved situational awareness in urban operations.

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Track vehicles	ced comb		Line Item No TEM ENHA		M: SEP M1A2 (GA	A0730)	Weapon Syste	m Type:	Pate:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	nts	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
SEP Base		Α							78962	34	2322
SEP Bridge		Α							339072	146	2322
SEP Main		Α							134699	58	2322
FLIR Base		Α							13515	34	398
FLIR Bridge		Α							58037	146	398
FLIR Main		Α							23056	58	398
GFE Base									41272	34	1214
GFE Bridge									177235	146	1214
GFE Main									70409	58	1214
M1A2 Depot-Maintenance Pre-MOD Base									17270	34	508
M1A2 Depot-Maintenance Pre-MOD Bridge									74159	156	475
M1A2 Depot-Maintenance Pre-MOD Main									29461	38	775
STS, TPF, ST&TS, Gov't Spt Base									19391		
STS, TPF, ST&TS, Gov't Spt Bridge									51497		
STS, TPF, ST&TS, Gov't Spt Main									67375		
Total:									1195410		

Exhibit P-5a, Budget Procurement	t History and Planning							Oate: Sebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	Weapon System Type:	P-1 Line Item SYSTEM EN	Nomenclature: HANCEMENT PGM: SEP M	11A2 (GA0730)						
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	RFF Issue Date
SEP Base										
FY 2007	GDLS Sterling Heights, MI	SS/FFP	TACOM - Warren	Nov 06	Nov 08	34	2322			
SEP Bridge										
FY 2007	GDLS Sterling Heights, MI	SS/FFP	TACOM-Warren	Nov 06	Nov 08	146	2322			
SEP Main										
FY 2007	GDLS Sterling Heights, MI	SS/FFP	TACOM-Warren	Jul 07	Apr 09	58	2322			
FLIR Base										
FY 2007	Various	SS/FFP	CECOM	Nov 06	Aug 08	34	398			
FLIR Bridge										
FY 2007	Various	SS/FFP	CECOM	Nov 06	Aug 08	146	398			
FLIR Main										
FY 2007	Various	SS/FFP	CECOM	Jul 07	Jan 09	58	398			

		F	FY 07 /	08 BU	DGET	r PRO	ODUC	CTIO	N SCI	HEDU	JLE				M NOMI M ENHA			M: SEP	M1A2 (0	GA0730	)		Dat	te:	Februa	ry 2007				
	C	OST	ELEN	IENTS							Fiscal	Year 07	,										Fiscal Y	Year 08						
	1	- C	PROC	ACCED	DAI				I					<u> </u>	<b>X</b> 7 0	\ <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>					l			<u> </u>	1 87					
М		S E	PROC QTY	ACCEP PRIOR	BAL DUE			•						Calenda	ır Year (	<b>y</b> 7								Calei	ndar Ye	ar 08			1	
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
SE	P Base					1																							1	
	FY 07	A	34	0	34		A																							34
_	P Bridge		1	П		1	1		1	1	1	1		1	1						1		1	1		1	1		1	
_	FY 07	A	146	0	146		A																							146
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1	FY 07	A	58	0	58										A															58
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N	r T						,	PRODI	JCTION :	RATES							ADMIN I	EAD T	TME.		MFR		TOTA	AL.	REMA	RKS				
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Item No. 15 Page 5 of 5 77

Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles		P	-1 Item Nomench HOWITZI	lature ER, LIGHT, TOWED	, 105MM, M119 (G	01300)	·	
Program Elements for Code B Items:		Code:	Oth	er Related Progra	m Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				2	.7					27
Gross Cost				38	.0					38.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				38	.0					38.0
Initial Spares										
Total Proc Cost				38	.0					38.0
Flyaway U/C										
Weapon System Proc U/C				1	4					1.4

The M119A2 105MM Towed Howitzer provides direct artillery fire support for the light forces. Army transition to a modular force has increased the need for this system. Production was restarted in FY2005. The National Guard will replace their Vietnam-era M102, 105MM howitzers with this improved weapon.

FY2007 Base Appropriation \$20,287 FY2007 Title IX (Bridge) Appropriation \$0 FY2007 Main Supplemental Request \$17,696 FY2007 Total \$37,983

### Justification:

FY2007 Base Appropriation funds will procure ten (10) M119A2 105MM Towed Howitzers, Basic Issue Items and Initial Spares. Base Appropriation will also fund associated acceptance testing, fielding and program support.

FY2007 Main Supplemental Funds will procure seventeen (17) M119A2 105MM Towed Howitzers, Basic Issue Items, Initial Spares, Acceptance Testing and Fielding.

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapo combat vehicles	ons and o			omenclature: GHT, TOWED, 1	05MM, M119 (G	01300)	Weapon Syste	em Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	its	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 2007 Base Appropriation											
M119A2 105mm Howitzer Production									7800	10	780
Basic Issue Items & Initial Spares									388	3	
Test / Acceptance									4882	2	
System Eng / Program Mgt / Fielding									7217	7	
Base SUBTOTAL									20287	7	
FY 2007 Main Supplemental Request											
M119A2 105mm Howitzer Production									13260	17	780
Basic Issue Items & Initial Spares									660	)	
Test / Acceptance									335	5	
System Eng / Program Mgt / Fielding									3441	ı	
Main Suppl SUBTOTAL									17696	5	
Total:									37983	3	

Exhibit P-5a, Budget Procurement	History	and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat		Veapon System Type:		Nomenclature: LIGHT, TOWED, 105MM, N	1119 (G01300)						
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
FY 2007 Base Appropriation M119A2 105mm Howitzer Production FY 2007	Rock Island	Arsenal	MIPR	N/A	Oct 06	Jan 09	10	780	Yes	N/A	N/A
FY 2007 Main Supplemental Request M119A2 105mm Howitzer Production	Rock Island	, IL									
FY 2007	Rock Island Rock Island		MIPR	N/A	Aug 07	Feb 09	17	780	Yes	N/A	N/A

		F	FY 07 /	08 BU	JDGE	T PR	ODU	CTIO	N SCI	HEDU	LE				M NOMI ZER, LIG			05MM,	, M119 (	G01300	)		Da	te:	Februa	ry 2007				
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M1	19A2 10	5mm H	Iowitzer I	Production	ı	•	•							•					•			•				•		•		
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M1	19A2 10	)5mm H	Iowitzer I	Production		,																								
1	FY 07 MAIN	A	17	17	1	7				2	10	5																		0
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Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
		ombat vehicles			P-1	Item Nomencla M240 Med	ature ium Machine Gun (7	.62mm) (G13000)		•	
Program Elements for Code B Items:	Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles ram Elements for Code B Items:  Code:  A  Prior Years FY 2005  Qty  s Cost				Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	gram Elements for Code B Items:  Prior Years FY 2005 FY c Qty c St Cost s PY Adv Proc s CY Adv Proc				10400						10400
Gross Cost	Prior Years FY 2005  Qty s Cost PY Adv Proc										97.3
Less PY Adv Proc	Qty S Cost PY Adv Proc CY Adv Proc										
Plus CY Adv Proc	Prior Years F  Qty S Cost PY Adv Proc CY Adv Proc										
Net Proc P1					97.3						97.3
Initial Spares											
Total Proc Cost					97.3						97.3
Flyaway U/C	e Qty ss Cost s PY Adv Proc CY Adv Proc Proc P1 al Spares al Proc Cost away U/C										
Weapon System Proc U/C											

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, 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 this 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 (FY07 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:**

FY 2007 Supplemental funding procures 7,315 new M240B's. 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.

(Dollars in Millions)

FY07 Baseline: \$ 9.5 FY07 TITLE IX: \$21.6 FY07 Supplemental: \$66.2 FY07 Total: \$97.3

Quantity: 10,400 weapons

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / We combat vehicles	apons and		Line Item No 240 Medium M	menclature: Iachine Gun (7.62	2mm) (G13000)		Weapon Syste	em Type:	Date:	February 2007
WTCV	-	ID	•	FY 05			FY 06	<u>'</u>		FY 07	
Cost Elemen	nts	CD	Total Cos	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware - Baseline											
(Incls Blank Firing Device)											
Hardware (Infantry Version - M240B)		A							6246	723	9
Hardware (Aviation Version - M240H)		A							1988	193	10
2. Hardware (M240B) - Title IX		A							18740	2169	9
3. Hardware (M240B) - Supplemental		A							63200	7315	9
4. Engineering Support									5187		
5. Integrated Logistics Support									275		
6. Engineering Change Proposals									230		
7. Total Package Fielding									500		
8. Engineering Studies									300		
9. New Equipment Training									125		
10. First Destination Transportation									485		
11. RFI - Barrel Bags									26		
12. RFI - Barrel Bags - Supplemental											
Total:									97302		

Exhibit P-5a, Budget Procurement	History and Planning							Oate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat was a compact of the combat was a combat was a combat was a combat was a compact of the combat was a comb	Weapon System Type:	P-1 Line Item M240 Mediur	Nomenclature: n Machine Gun (7.62mm) (G	13000)						
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	RFI Issu Date
1. Hardware - Baseline										
Hardware (Infantry Version - M240B)										
	TBS TBS	C/FFP	TACOM - R I, Rock Island, IL	Feb 07	Jul 08	723	9	Yes		
Hardware (Aviation Version - M240H)										
	FN Mfg Inc. Columbia, SC	Option	TACOM - R I, Rock Island, IL	Dec 06	Mar 07	193	10	Yes		
2. Hardware (M240B) - Title IX										
	TBS TBS	C/FFP	TACOM - R I, Rock Island, IL	Feb 07	Jul 08	2169	9	Yes		
3. Hardware (M240B) - Supplemental										
	FN Mfg Inc. Columbia, SC	SS/FFP	TACOM - R I, Rock Island, IL	Jul 07	Jan 08	7315	9	Yes		

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3.	Hardwar	are (Aviation Version - M240H)  17 A 193 0 193 A 193 D 193 A 193 D 193 A 193 D 193 A 193 D 193 D 193 D 193 D 193 D 193 D 194 D																												
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	Base																													
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2			Columbia	i, 5C							+	_						_												
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				<u>*                                    </u>								3		itial			6		5		13		18							
													Re	order			3		2		4		6		1					
													In	itial																
													Re	order																
	-						_				-		-	itial											4					

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 2 /		ombat vehicles			P-1	Item Nomencla M249 SAW	ature V Machine Gun (5.56	mm) (G12900)		•	
Program Elements for Code B Items:		Code:		Other R	elated Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					6108						6108
Gross Cost					28.8						28.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					28.8						28.8
Initial Spares											
Total Proc Cost					28.8						28.8
Flyaway U/C											
Weapon System Proc U/C								_			

The M249 Squad Automatic Weapon (M249 SAW) is a lightweight (22 pounds with 200 rounds of ammunition) 5.56mm, one-man operated weapon capable of delivering a sustained volume of automatic, accurate, and lethal fire at ranges of up to 800 meters. The M249 SAW replaces two automatic M16A1 rifles in a rifle in all infantry type units and in other units requiring high firepower. The M249 SAW also fills a secondary role as a light machine gun replacing most of the M60 Machine Guns. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) additional items are being procured under the Rapid Fielding Initiative (RFI) which quickly provides new weapons and equipment to units deployed.

#### **Justification:**

FY 2007 Supplemental procures 5,798 M249 Spare Barrel Bags and 419 M249 Squad Automatic Weapons (M249 SAW). Funding re-baselines deploying units by replacing lost, damaged or destroyed items. The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force Units.

(Dollars in Millions) FY07 Baseline: \$ 3.3 FY07 Title IX: \$22.2 FY07 Supplemental: \$3.3 FY07 Total: \$28.8

Quantity: 6,108 weapons

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and			omenclature: chine Gun (5.56m)	m) (G12900)		Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	ts	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
1. M249 SAW Weapon - Baseline		Α							2807	736	3.8
2. M249 SAW Weapon - Title IX		Α							18887	4953	3.8
3. M249 SAW Weapon - Supplemental		Α							1530	419	3.7
4. Engineering Support									2239	)	
5. ILS									296	5	
6. Fielding									365	5	
7. Engineering Studies									600	)	
8. First Destination Transportation									225	5	
9. RFI - Barrel Bags									82	2	
10. RFI - Barrel Bags - Supplemental									1784	5798	0.3
Total:									28815	,	

Exhibit P-5a, Budget Procur	ement Histo	ry and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and o	ther combat vehicles	Weapon System Type:		Nomenclature: Machine Gun (5.56mm) (G129	000)						
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
1. M249 SAW Weapon - Baseline											
FY 2007 Baseline	TBS TBS		C/FFP	TACOM-Picatinny, Picatinny, NJ	Jul 07	Mar 08	736	3.8	Yes		
2. M249 SAW Weapon - Title IX											
FY 2007 IX	TBS TBS			TACOM-Picatinny, Picatinny, NJ	Jul 07	Mar 08	4953	3.8	Yes		
3. M249 SAW Weapon - Supplemental											
FY 2007 S	TBS TBS		C/FFP	TACOM-Picatinny, Picatinny, NJ	Jul 07	Feb 08	419	3.7	Yes		

		F	<b>Y 07</b> /	08 BU	JDGE'	ΓPR	ODU	CTIO	N SCI	HEDU	LE			P-1 ITEN M249 S <i>A</i>				m) (G12	2900)				Dat	e:	Februar	ry 2007				
	C	OST	ELEM	IENTS	5					]	Fiscal Y	ear 07	J.										Fiscal Y	ear 08						
			1	I	1				1											- 1										
M		S E	PROC QTY	ACCEP PRIOR										Calenda	r Year 0	7								Caler	ndar Yea	ar 08				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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	Later
1. N	/1249 SA	W Wea	apon - Ba	seline																										
	FY 07 Base	A	736	0	736										A								100	100	100	100	100	100	136	0
2. N	/1249 SA	W Wea	apon - Ti	tle IX	•									•										•						
	FY 07 IX	A	4953	0	4953										A								181	350	350	350	350	350	514	2508
3. N	/1249 SA	W Wea	apon - Su	pplementa	al									•																
	FY 07 S	A	419	0	419										A							250	169							0
Tot			6108		6108																	250	450	450	450	450	450	450	650	2508
1 ot	aı		6108		6108	0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	250 F	450 M	450 A	450 M	450 J	450 J	450 A	650 S	2508
						C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	
																													•	
M								PRODU	CTION	RATES						A	ADMIN I	EAD T	IME		MFR		TOTA	AL.	REMA	RKS				-
F											Reac	hed MI	FR			Pri	or 1 Oct	Afte	r 1 Oct	Aft	er 1 Oct	:	After 1	Oct						
R			Nam	ne - Locati	ion		1	MIN	1-8-5	MAX	D-	- 1	Ini	tial			3		9		8		17							
1	TBS, T	BS						1500	3360	8400	18		Ree	order			3		1		10		11							
													Ini	tial																
													Re	order																
													Ini	tial																
														order											_					
	-										<del>                                     </del>	_	-	tial						-					_					
											-	_		order								+			1					
													Init	nrder								-			1					

		F	FY 09 /	10 BU	DGE	Γ PR(	DUC	CTIO	N SCI	HEDU	LE			P-1 ITEI M249 SA				m) (G12	2900)				Dat	te:	Februa	ry 2007				
	C	OST	ELEM	IENTS							Fiscal Y	Year 09	)	•									Fiscal Y	Year 10	)					
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	ır Year (	19								Cale	ndar Ye	ar 10				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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 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	Later
1. N	1249 S <i>A</i>	W Wea	apon - Ba	seline						ı				l .										ı	1					1
	FY 07 Base	A	736	736																										0
2. N	1249 S <i>A</i>	W Wea	apon - Ti	tle IX							· ·			•		l .				U U	U U									
	FY 07 IX	A	4953	2445	2508	650	650	650	558																					0
3. N	1249 S <i>A</i>	W Wea	apon - Su	pplementa	al										1															•
	FY 07 S	A	419	419																										0
•																														
																												<u> </u>		
							<u> </u>																					<u> </u>		
																												<u> </u>	L	
Tota	al		6108	3600	2508	650	650	650	558																			<u> </u>		
						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 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	
	1																													•
M							L,	PRODU	CTION I	RATES	_						DMIN L				MFR		TOTA		REMA	RKS				
F				τ			١,	ATD.	105	MAN		hed N	-			Pri	or 1 Oct	-	r 1 Oct	Aft	er 1 Oct		After 1		-					
R	TBS, T	TD C	Nam	ne - Locati	on			MIN 1500	1-8-5 3360	MAX 8400	D-		-	nitial			3	+	9		8		17							
1	103,	DS						.300	3300	0400	10	'		teorder			3		1		10		11		-					
							+	-+					-	nitial		+									-					
							_						-	teorder nitial																
							+	-+					-	teorder																
							-	-+						nitial		+									†					
							+	-+					-	leorder											1					
								-+					-	nitial											1					
													-	leorder											1					

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 2 /		ombat vehicles			P-1	Item Nomencla MK-19 Gre	ature enade Machine Gun (	40mm) (G13400)			
Program Elements for Code B Items:		Code:		Other F	Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					2616						2616
Gross Cost					48.2						48.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					48.2						48.2
Initial Spares											
Total Proc Cost					48.2						48.2
Flyaway U/C											
Weapon System Proc U/C											

The MK-19 (Mod 3) is a self-powered, air-cooled, 40mm automatic grenade launcher capable of a cyclic rate of 325-375 rounds per minute. It will engage point targets up to 1,500 meters and provide suppressive fire up to 2,200 meters. The MK-19 is fielded with the MK93 mount. The weapon will be mounted on select Stryker vehicles, High Mobility Multi-Purpose Wheeled Vehicles (HMMWVs), the M113 Armored Personnel Carrier family of vehicles, and the M88A1 Recovery Vehicle. During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount.

#### **Justification:**

FY 2007 Supplemental procures 2,114 MK-19 Grenade Machine Guns to improve unit lethality and survivability in the Global War on Terror (GWOT) against an asymmetric enemy. This funding provides deploying units with a critical crew served weapon capability to improve survivability and lethality.

(Dollars in Millions)
FY07 Baseline: \$1.7
FY07 Title IX: \$10.1
FY07 Supplemental: \$36.4
FY07 Total: \$48.2

Quantity: 2,616

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and			omenclature: Machine Gun (40	mm) (G13400)		Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	ts	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
1. MK19 Hardware - Baseline		Α							116	8 73	16
2. MK19 Hardware - IX		Α							686	4 429	16
3. MK19 Hardware - Supplemental		Α							33824	4 2114	16
4. GFM									2849	9	
5. Engineering Support									125	7	
6. Integrated Logistics Support (ILS)									22:	5	
7. Fielding									140	7	
8. Engineering Studies									150	0	
9. First Destination Transportation									300	0	
10. Arms Rack									180	6	
Total:									48230	0	

Exhibit P-5a, Budget Proc	urement Histo	ry and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons as	nd other combat vehicles	Weapon System Type:		Nomenclature: de Machine Gun (40mm) (G	13400)			·			
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	RFI Issu Date
1. MK19 Hardware - Baseline											
FY 2007 Baseline	TBS TBS		C/FFP	TACOM-Picatinny, Picatinny NJ	Jun 07	Mar 08	73	16	Yes		
2. MK19 Hardware - IX											
FY 2007 IX	TBS TBS		C/FFP	TACOM-Picatinny, Picatinny NJ	Jun 07	Mar 08	429	16	Yes		
3. MK19 Hardware - Supplemental											
FY 2007 S	Gen Dyn Saco, Ma	Armament & Tech Prod ine	SS/FFP	TACOM-Picatinny, Picatinny NJ	Jun 07	Jan 09	1167	16	Yes		
FY 2007 S	TBS TBS		C/FFP	TACOM-Picatinny, Picatinny NJ	Jun 07	Feb 09	947	16	Yes		

REMARKS: FY07 Base, Title IX and a portion of the Supplemental will be one competitive procurement action. The balance of the supplemental will be a sole source award to Gen Dynamics as a risk mitigation strategy. Award date is Jun 07.

		F	Y 07 /	08 BU	J <b>DGE</b>	ΓPR	ODUC	CTIO!	N SCI	HEDU	LE			P-1 ITEN MK-19 C				)mm) (C	313400)				Dat	te:	Februar	ry 2007				
	CO	OST	ELEM	1ENTS	<del></del>						Fiscal Y	Zear 07		1									Fiscal Y	Year 08						
			T		T	<u> </u>														-										
M		S E	PROC QTY	ACCEP PRIOR										Calenda	r Year 0	17								Cale	ndar Yea	ar 08				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT		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	Later
1. N	/K19 Ha	ardware	e - Baselin	ie			•									•														
	FY 07 Base	A	73	0	73									A									5	10	10	10	10	10	10	8
2. N	1K19 Ha	ırdware	- IX																	U U	U U									
	FY 07 IX	A	429	0	429	)								A									10	10	20	30	40	40	40	239
3. N	/K19 Ha	ardware	e - Supplei	mental	.1															<u> </u>	<u> </u>									
	FY 07 S	A	947	0	947									A																947
	FY 07 S	A	1167	0	1167									A																1167
Tot	al		2616		2616			<b>└</b>															15	20	30	40	50	50	50	2361
						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								PRODU	JCTION 1	RATES	_						DMIN L			4	MFR		TOTA		REMA	ARKS General I	Dynamic	o dolivo	rioc will	ho
F												hed MI	-			Pri	or 1 Oct	_	r 1 Oct	Aft	er 1 Oct		After 1		delayed	d. Contra	actor has	experie	nced diff	ficulties
R	~ ~			ne - Locati				MIN	1-8-5	MAX	D+	· 1	-	itial			4	+	8		20		28		restartii	ing quant wn	tity produ	uction fo	ollowing	
1	TBS, T		ament &	Tech Prod	I, Saco, N	/laine		600	2160	3600	+-		-	eorder			4	+	2		20		22		-					
2	185, 1	BS					_	600	1200	1800	+-	2	-	itial			4	+	2		10		18		-					
							-+	-+			+-	_		eorder			4		2		10		12		-					
							-+	$\rightarrow$		-	+-	-	_	eorder											-					
-							-+	-+			+-	+	_	itial											1					
								$\dashv$			+	$\dashv$	⊢	eorder											1					
											+			itial						t					1					
	1										1		R	eorder											1					

		F	FY 09 /	10 BU	DGE	Γ PR(	ODUC	CTIO	N SCF	<b>IEDU</b>	LE			P-1 ITEM MK-19 G				)mm) (C	313400)				Da	te:	Februa	ary 2007				
	C	OST	ELEM	IENTS							Fiscal Y	ear 09											Fiscal Y	Year 10	)					
		ı	1	l	1																									4
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE				]				(	Calenda	r Year 0	9								Cale	ndar Ye	ar 10				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
1. N	ЛК19 На	ardware	- Baselin	ie		•	•						•									•	•					•		•
	FY 07 Base	A	73	65	8	8																								0
2. N	ЛК19 Ha	ardware	- IX	l		1	1																1		1					
	FY 07 IX	A	429	190	239	50	50	50	50	39																				0
3. N	ЛК19 Ha	ardware	- Supple	mental																										
	FY 07 S	A	947	0	947					3	50	50	50	75	75	160	160	160	164											0
	FY 07 S	A	1167	0	1167				180	180	180	180	180	180	87															0
																													<u> </u>	
Tot	al		2616	255	2361	58	50	50	230	222	230	230	230	255	162	160	160	160	164							ļ		ļ		
						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							1	PRODU	CTION F	RATES						A	DMIN L	EAD T	IME		MFR		TOT	AL	REMA	RKS				'
F												ned Mi	FR			Pric	or 1 Oct	After	r 1 Oct	Aft	er 1 Oct		After 1	Oct						
R				ne - Locati				MIN	1-8-5	MAX	D+	- 1					4	+	8		20		28							
1			ament &	Tech Prod	l, Saco, M	laine		600	2160	3600				order			4	+	2		20		22		_					
2	TBS, T	BS						600	1200	1800		2					4	+	8		10		18							
	-												Init	order			4		2		10		12							
										<u> </u>				order											-					
	†												Init																	
	†													order				1							1					
	1												Init												1					
													Rec	order				1							1					

Exhibit P-40, Budget Item	Justification	Sheet						Date:	Eshmiomi 2007	
Appropriation / Budget Activity / Seri	al No:			Ir	P-1 Item Nomeno	Platura			February 2007	
Procurement of W&TCV, Army / 2 /		ombat vehicles				ystems (G02200)				
Program Elements for Code B Items:		Code:	О	ther Related Progra	m Elements:					
	Prior Years	FY 2005	FY 200	06 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				4	24					424
Gross Cost				35	5.2					35.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				35	5.2					35.2
Initial Spares										
Total Proc Cost				35	5.2					35.2
Flyaway U/C										
Weapon System Proc U/C					0.5					0.5

Mortar Systems funding supports the production of the M224 60mm Company Mortar System, the M252 Improved 81mm Mortar System, and the M120/M121 Battalion Mortar System.

Mortar Systems also procures Basic Issue Items (BII), and Direct Support Tools for each mortar system, plus additional 81mm BII sets to be used with depot assets; M67 Sight Units for each mortar system; and M1101 Trailers for use with the M120 120mm Towed Mortar System. The M120 will be stowed on the M1101 Trailer, along with the mortar ammunition.

#### **Justification:**

FY 2007 includes Main Supplemental funding of \$35.2 million to support the global war on terrorism. Mortar systems procured through supplemental funding provides critically needed indirect fire capability to units preparing to deploy or currently deployed to Operation Iraqi Freedom (OJF/OEF). These additional mortar systems are required to satisfy late FY 2006 equipment changes to Special Operation Forces (SOF) units that do not currently possess these mortar systems. Deploying these units without full MTOE authorization affects all combat missions that require stand-off indirect fire and force protection capability

FY 2007 Base Appropriation - \$00.0 million FY 2007 Title IX (Bridge) Appropriation FY 2007 Main Supplemental Request - \$35.2 million FY 2007 Total - \$35.2 million

,	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and		ine Item No ir Systems (	omenclature: (G02200)			Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Element	ts	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
FY 2007 Main Supplemental Request											
Mortar Weapons Systems									35215	5 424	83
Total:									3521	5	

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 2	al No: / Weapons and other co	ombat vehicles			P-1	Item Nomencla Mtr Wpn Sy				1 cordary 2007	
Program Elements for Code B Items:		Code:		Other Rela	ted Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					424						424
Gross Cost					35.2						35.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					35.2						35.2
Initial Spares											
Total Proc Cost					35.2						35.2
Flyaway U/C											
Weapon System Proc U/C					0.5						0.5

Mortar Systems funding supports the production of the M224 60mm Company Mortar System, the M252 improved 81mm Mortar System, and the M120/M121 Battalion Mortar System.

Mortar Systems also procures Basic Issue Items (BII), and Direct Support Tools for each mortar system, plus additional 81mm BII sets to be used with depot assets; M67 Sight Units for each mortar system; and M1101 Trailers for use with M120 120mm Towed Mortar System. The M120 will be stowed on the M1101 Trailer, along with the mortar ammunition.

#### **Justification:**

FY 2007 includes Main Supplemental funding of \$35.2 million to support the Global War on Terrorism. Mortar systems procured through Supplemental funding provides critically needed indirect fire capability to units preparing to deploy or currently deployed to Operation Iraqi Freedom /Operation Enduring Freedom (OIF/OEF). These additional mortar systems are required to satisfy late FY 2006 equipment changes to Special Operation Forces (SOF) units that do not currently possess these mortar systems. Deploying units without full MTOE authorization affects all combat missions that require standoff indirect fire and force protection capability.

FY 2007 Base Appropriation - \$00.0 million FY 2007 Title IX (Bridge) Appropriation FY 2007 Main Supplemental Request - \$35.2 million FY 2007 Total - \$35.2 million

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and		P-1 Line I Mtr Wpn		menclature: 02202)			Weapon Syste	em Type:	ate:	February 2007
WTCV	1	ID		F	Y 05			FY 06	<u></u>		FY 07	
Cost Elemen	nts	CD	Total C	Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	) 1	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FY 2007 Main Supplemental Request												
HARDWARE												
Mortar Weapons Systems Contract II										21857	424	52
Basic Issue Items & Direct Support Tools										6351	424	12
M67 Sight Units										1314	424	3
M1101 Cargo Trailers										240	24	10
Quick Stow Systems										394	24	16
Subtotal Hardware										30156		
PRODUCTION SUPPORT												
Production Engineering										1556		
Proof and Acceptance										1250		
Fielding, Installation,										2000		
and New Equipment Team												
<b>Subtotal Production Support</b>										4806		
NON-RECURRING COSTS												
First Article Test										250		
<b>Subtotal Non-Recurring Costs</b>										250		
Total:										35212		

Exhibit P-5a, Budget Procur	ement Histor	y and Planning							Oate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and of	ther combat vehicles	Weapon System Type:	P-1 Line Item Mtr Wpn Sys								
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	RFI Issu Date
FY 2007 Main Supplemental Request											
Mortar Weapons Systems Contract II											
FY 2007 S	General D St. Petersl	ynamics, OTS burg, FL	C/Option	Picatinny, NJ	Jun 07	Sep 08	424	52	Yes		
Basic Issue Items & Direct Support Tools											
FY 2007 S			C/Option	Picatinny, NJ	Jun 07	Jun 08	424	12	Yes		
M67 Sight Units											
FY 2007 S			C/Option	Picatinny, NJ	Jun 07	Jun 08	424	3	Yes		
M1101 Cargo Trailers											
FY 2007 S			C/Option	Picatinny, NJ	Jun 07	Jun 08	24	10	Yes		
Quick Stow Systems											
FY 2007 S			C/Option	Picatinny, NJ	Jun 07	Jun 08	24	16	Yes		

		F	FY 07 /	'08 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	ILE			P-1 ITEM Mtr Wpr			ΓURE						Dat	e:	Februa	ry 2007				
	C	OST	ELEM	IENTS							Fiscal '	Year 07	'										Fiscal Y	ear 08						
		1	1	1	1				1																					_
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year (	)7								Caler	ndar Ye	ar 08				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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	Later
Mo	rtar Wea	apons S	ystems Co	ontract II		•				l i									•						•			•	•	•
	FY 07 S	A	424	0	424									A															45	379
	3																													
																										<u> </u>	<u> </u>			
								<u> </u>																			<u> </u>			
																											<u> </u>			
								<u> </u>																			<del>                                     </del>			
-																											<del></del>			
Tot	al		424		424																								45	379
						0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	
						C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	
							•						•	•	•														•	•
M								PRODI	ICTION I	RATES						А	DMIN I	EAD T	TME.		MFR		TOTA	AL.	REMA	RKS				1
F							-				Reac	hed M	FR				or 1 Oct	_	r 1 Oct	-1	er 1 Oct		After 1							
R			Nan	ne - Locati	on		1	MIN	1-8-5	MAX	D-	+	1 Ir	nitial			6		6		18		24							
1	Gener	al Dyna	mics, OT	S, St. Peter	rsburg, F	L		120	540	840			R	eorder			3		9		15		24							
													Ir	nitial																
													R	eorder																
			-										Ir	nitial																
													R	eorder																
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	1												Ir	nitial				1												
	1												R	eorder				1												

G02200 (G02202) Mtr Wpn Sys Item No. 23 Page 6 of 7 103 Exhibit P-21 Production Schedule

		F	Y 09 /	10 BU	DGE	Γ PR(	ODUC	CTIO	N SCI	HEDU	LE			P-1 ITEN Mtr Wpn			ΓURE						Dat	e:	Februa	ry 2007				
	C	OST	ELEM	IENTS							Fiscal Y	ear 09											Fiscal Y	Zear 10						
		-	ppog	+ GGER	D.1.				1					~										~ .						_
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year (	19								Caler	ndar Ye	ar 10				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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	Later
Mo	rtar Wea	pons S	ystems Co	ontract II																										
	FY 07 S	A	424	45	379	45	45	45	45	45	45	45	45	5 19																0
																											<u> </u>			
																											<u> </u>			
																										-				
Tot	al		424	45	379	45	45	45	45	45	45	45	45	19																
						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							]	PRODU	CTION	RATES						A	DMIN I	EAD T	IME		MFR		TOTA	AL.	REMA	RKS				1
F											Reacl	ned M	FR			Pric	or 1 Oct	Afte	r 1 Oct	Aft	er 1 Oct		After 1	Oct						
R			Nan	ne - Locati	on		N	MIN	1-8-5	MAX	D+	-	1 Ini	tial			6		6		18		24							
1	Genera	al Dyna	mics, OT	S, St. Peter	rsburg, F	L		120	540	840			Re	order			3		9		15		24							
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											1	1	Re	order																

G02200 (G02202) Mtr Wpn Sys Item No. 23 Page 7 of 7 104 Exhibit P-21 Production Schedule

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles			P-1	Item Nomencla M107, CAI	ature L. 50, SNIPER RIFL	E (G01500)			
Program Elements for Code B Items:		Code:		Other Re	elated Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					390						390
Gross Cost					9.1						9.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					9.1						9.1
Initial Spares											
Total Proc Cost					9.1						9.1
Flyaway U/C											
Weapon System Proc U/C											

The M107 is a Cal .50 rifle with attached optics/electro-optics that supports all weather, day/night tactical dominance via rapid-fire direct fire engagements with armor penetrating, incendiary, dual-purpose ammunition. The M107 provides a man-portable, materiel destruction capability to the sniper team. With a family of ammunition, the M107 enables sniper teams to employ destructive force at greater ranges and at a high rate of fire. The M107 will also replace existing non-standard, M82A1, .50 caliber rifles in Explosive Ordnance Detachments as detonation tools. The primary mission of this rifle is to engage and defeat materiel targets at extended ranges to include parked aircraft; command, control, communications, computers, and intelligence (C4I) sites; radar sites; ammunition storage sites; petroleum, oil and lubricant facilities; and various other thin skinned (lightly armored) materiel targets out to 2000 meters. The M107 will also be used in a counter-sniper role, taking advantage of the longer stand-off range and increased terminal effect of opposing snipers armed with smaller caliber weapons out to 1000 meters. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured as part of the Rapid Fielding Initiative (RFI). The RFI provides new equipment (Laser Filter Units, Spotter Scopes and ancillary items) to units deployed.

#### Justification:

FY 2007 Supplemental procures 330 M107 Spotter Scopes for RFI. The M107 is more effective against light materiel and personnel targets and supplements the sniper's role to support combat operations. It allows precise engagement of high value targets and counter-sniper capability, and provides more destructive force terminal effects at greater ranges and a high rate of fire. The M107's effective range is 2000 meters for (anti-materiel) and 1000 meters for (anti-personnel). The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force Units.

(Dollars in Millions)
FY07 Baseline: \$8.4
FY07 Title IX: \$0
FY07 Supplemental: \$0.7
FY07 Total \$9.1
Quantity 390 Weapons

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Wear combat vehicles	ons and		P-1 Line Item 1 M107, CAL. 50	Iomenclature: , SNIPER RIFI	E (G01500)		Weapon Syste	em Type:	ate:	February 2007
WTCV	1	ID		FY 0:	5		FY 06	1		FY 07	
Cost Elemen	ts	CD	Total Co	ost Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware - Baseline											
M107 Sniper Weapon		Α							4029	390	10.33
Laser Protection Filters & Anti-Reflect		Α							252	390	0.65
Flash/Sound/Recoil Suppressors		Α							1750	1435	1.22
2. GFM									75	390	0.19
3. Maintenance Contract									110		
4. Shipping (GBL)									20		
5. Retrofit/Refurbishment of Urgent Rel.											
6.Rapid Fielding Initiative (Var. items)									191		
7.Rapid Fielding Initiative-Spot Scope-S									612	330	1.85
8. Engineering Support									761		
9. STRICOM (MILES)									763		
10. Integrated Logistical Support (ILS)									170		
11. New Equipment Training (NET)									205		
12. Fielding									190		
13. Engineering Change Proposals (ECPs)									15		
14. Flash Suppressor Study											
Total:									9143		

Exhibit P-5a, Budget Procuren	nent Histor	y and Planning							Oate: Tebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other	combat vehicles	Weapon System Type:	P-1 Line Item M107, CAL. 5	Nomenclature: 0, SNIPER RIFLE (G01500)	)						
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
1. Hardware - Baseline											
M107 Sniper Weapon											
FY 2007 Base	Option	TACOM-Picatinny, Picatinny, NJ	Jan 07	Apr 07	390	10.33	Yes				
Laser Protection Filters & Anti-Reflect											
FY 2007 Base	Tenebraez Boston, M		Option	TACOM-Picatinny, Picatinny, NJ	Jan 07	Apr 07	390	0.65	Yes		
Flash/Sound/Recoil Suppressors											
FY 2007 Base	Barrett Fi Murfreesh	rearms Mfg. ooro, TN	SS/FFP	TACOM-Picatinny, Picatinny, NJ	Jan 07	May 07	1435	1.22	Yes		

REMARKS:

		F	Y 07 /	08 BU	DGET	ΓPRO	ODUC	CTIO	N SCI	HEDU	JLE			P-1 ITEN M107, C				(G0150	0)				Dat	te:	Februa	ry 2007				
	C	OST	ELEN	IENTS							Fiscal `	Year 07											Fiscal Y	Year 08						
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 0	7								Cale	ndar Ye	ar 08				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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	Later
1.	Hardwar	e - Base	eline	I	1			_																						l
М	107 Snip	er Wea	ıpon																											
	FY 07 Base	A	390	0	390				A			90	100	100	100															0
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			+																											
Tot	al		390		390							90	100	100	100															
						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								PRODU	ICTION :	RATES						A	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA	RKS				1
F											Reac	hed M	FR			Prio	or 1 Oct	Afte	r 1 Oct	Aft	ter 1 Oct		After 1	Oct						
R			Nam	ne - Locati	on			MIN	1-8-5	MAX		+	l Ini	tial			3		7		7		14							
1	Barrett	Firearr	ns Mfg.,	Murfreesb	oro, TN			300	600	1200				order			3		3		4		7							
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Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles			P-1	Item Nomencla XM110 SE	nture MI-AUTOMATIC S	NIPER SYSTEM (	SASS) (G01505)		
Program Elements for Code B Items:		Code:		Other Rela	ited Program	Elements:					
	Prior Years	FY 2005	FY 2	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					510						510
Gross Cost					7.6						7.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					7.6						7.6
Initial Spares											
Total Proc Cost					7.6						7.6
Flyaway U/C											
Weapon System Proc U/C											

The XM110 Semi-Automatic Sniper System (SASS) is a 7.62mm rapid-fire, rapid-reload, suppressed sniper rifle. It exceeds the rate-of-fire and lethality of the existing M24 Sniper Weapon System. The SASS is lighter than the M24, and its anti-personnel ranges are equal to or greater than the M24. The SASS includes an enhanced sniper spotting scope.

#### **Justification:**

FY2007 Supplemental provides for additional support required for the XM110 SASS's to support the new modular force structure. The SASS meets the Army's requirement for a more effective sniper team with improved capability to fight and survive when engaged in react-to-scenarios, and to support the maneuver force in a multi-shot and multi-target environment.

(Dollars in Millions)
FY07 Baseline: \$7.3
FY07 Title IX: \$0
FY07 Supplemental \$0.3
FY07 Total \$7.6

Quantity: 510 Weapons

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and		0 SEMI-A	menclature: UTOMATIC SNI	PER SYSTEM (S	SASS)	Weapon Syste	m Type: D	ate:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	ts	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
1. Hardware - Baseline											
SASS Weapon		A							5136	510	10
External Mount Assembly (EMA) and											
Anti Reflections Devices (ARD)									259	510	
Spotting Scope									479	510	
2. Test Ammunition									71		
3. Maintenance & Repair									100		
4. Shipping (GBL)									63		
5. Engineering Support (B/S)									650		
6. STRICOM (MILES)									180		
7. Testing									245		
8. Integrated Logistics Support (S)									100		
9. New Equipment Training (S)									170		
10. Fielding									135		
11. ECP's											
Total:									7588		

Exhibit P-5a, Budget Procure	ment Histor	y and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other	r combat vehicles	Weapon System Type:	P-1 Line Item XM110 SEMI	Nomenclature: -AUTOMATIC SNIPER SY	STEM (SASS) (0	G01505)					
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
1. Hardware - Baseline											
SASS Weapon											
FY 2007 Base	Knight's A	Armaments Co. , FL	OTHER	TACOM-Picatinny, Picatinny, NJ	Apr 07	Aug 07	510	10	Yes		
Anti Reflections Devices (ARD)											
FY 2007 Base	TBS TBS		C/FFP	TACOM - RI, Rock Island, NJ	Apr 07	Jul 07	510		Yes		
Spotting Scope											
FY 2007 Base	TBS TBS		C/FFP	TACOM-Picatinny, Picatinny, NJ	Apr 07	Jul 07	510		Yes		

REMARKS: FY07 is an production option on a R&D contract with Knight's Armaments Company.

		F	<b>Y 07</b> /	/ 08 BU	DGET	ΓPRO	ODUC	CTIO	N SCI	HEDU	ILE			P-1 ITEN XM110				IPER S	YSTEM	(SASS)	(G0150	5)	Dat	te:	Februa	ary 2007				
	CO	)ST ]	ELEN	1ENTS	,						Fiscal `	Year 07	1	•									Fiscal Y	Year 08	į					
М		S E	PROC QTY	ACCEP PRIOR										Calenda	r Year (	07								Cale	ndar Ye	ar 08				-
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	O C	N O	D E C	J A	F E	M A	A P	M A	J U	J U	A U	S E P	O C	N O	D E	J A N	F E B	M A	A P	M A Y	J U	J U	A U G	S E P	Later
	Hardware	Racel	line			T	V	C	N	В	R	R	Y	N	L	G	Р	T	V	С	N	В	R	R	Y	N	L	G	Р	1
_	SS Wear		me																											
_		A	510	0	510							A				75	75	75	75	75	75	60			T					0
	Base	<b></b>	<u> </u>		ļ			<u> </u>									<u> </u>						<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>	
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R			Nan	ne - Locati	ion		J	MIN	1-8-5	MAX			-	nitial			3	+	6		5		11		1					
1	Knight	s Arma	ments Co	o., Titusvil	lle, FL			510	2400	4800			-	eorder			3		1		5		6		1					
													It	nitial											1					
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Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 2		ombat vehicles			P-1	Item Nomencla M4 Carbine					
Program Elements for Code B Items:		Code:		Other Relat	ted Program	Elements:					
	Prior Years	FY 2005	FY 2	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					76330						76330
Gross Cost					97.1						97.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					97.1						97.1
Initial Spares											
Total Proc Cost					97.1						97.1
Flyaway U/C											
Weapon System Proc U/C					0.0						0.0

The M4 Carbine is a 5.56mm, gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon system. It is fed by a 30-round magazine and continues to replace the M16 series rifles, and select M9 pistols. It provides the individual Soldier operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. More compact than the M16 series rifle, the M4 Carbine features a collapsible buttstock and it achieves over 85% commonality with the M16A4 Rifle. The system also includes the Modular Weapons System (MWS) which provides 6 additional magazines, the M4 Rail Assembly System and Back-Up Iron Sights.

#### **Justification:**

FY 2007 Supplemental procures 74,855 M4 Carbines. The M4 Carbine provides soldiers with a small, lightweight weapon that provides increased lethality, better self-protection, and greater maneuverability in close quarters.

(Dollars in Millions)
FY07 Baseline: \$ 2.2
FY07 Bridge: 0
FY07 Supplemental: \$94.9
FY07 Total: \$97.1

Quantity: 76,330

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and		-1 Line Item No I4 Carbine (G1				Weapon Syste	em Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Elemen	ts	CD	Total Co	st Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. M4 Carbine (Baseline)		Α							2130	0 1475	1.4
2. M4 Carbine (Supplemental)		Α							91250	74855	1.2
3. Engineering Support									324	4	
Integrated Logistics Support									250	0	
5. Fielding/Transportation									250	0	
Total:									9712	4	

Exhibit P-5a, Budget Procurement	t Histor	y and Planning							Date: February	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other comba	t vehicles	Weapon System Type:	P-1 Line Item M4 Carbine (	Nomenclature: G14904)				_	_		
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
1. M4 Carbine (Baseline) FY 2007 Base	Colt's Mfg Hartford,	*	Option	TACOM-RI, Rock Island IL	Jan 07	Jul 07	1475	1.4	Yes		
2. M4 Carbine (Supplemental) FY 2007 S	Colt's Mfg Hartford,	-	SS/FFP	TACOM-RI, Rock Island IL	Jun 07	Sep 07	74855	1.2	Yes		

REMARKS: The Technical Data Package (TDP) Specifications were modified to incorporate the Modular Weapon System as part of the M4 Carbine configurations. The additional accessories increased the unit cost. A new sole source contract will be let with Supplemental funds.

		F	FY 07 /	08 BU	DGET	PR(	DUC	CTIO	N SCI	HEDU	LE			P-1 ITEN M4 Carb			ΓURE						Dat	e:	Februa	ry 2007				
	C	OST	ELEN	IENTS	}						Fiscal Y	Year 07	7										Fiscal Y	Zear 08						
М		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 0	7								Cale	ndar Ye	ar 08				
F R		R V	Each	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U	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	Later
1.	M4 Cart	oine (Ba	seline)																											•
1	FY 07 Base	A	1475	0	1475				A						1475															0
2.	M4 Carl	oine (Su	upplemen	tal)									•								U U		U U							•
1	FY 07 S	A	74855	0	74855									A			6105	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250		0
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То	tal	1	76330		76330										1475		6105	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250		
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1	Colt's	Mfg Co	. Inc, Har	tford, CT			1	2000	36000	144000	18	_	-+	Reorder			2		2		4		6		Supple	mental re	equirem	ents. The	e sustain	nable max.
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G14904 M4 Carbine Item No. 27 Page 4 of 4 116 Exhibit P-21 Production Schedule

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Ser. Procurement of W&TCV, Army / 2		ombat vehicles			P-1	Item Nomencla SHOTGUN	ature I, MODULAR ACCI	ESSORY SYSTEM	(MASS) (G18300)		
Program Elements for Code B Items: 0604601A - Infantry Support Weapon	ons S58	Code:	i	Other R	elated Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					3000						3000
Gross Cost					4.0						4.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					4.0						4.0
Initial Spares											
Total Proc Cost					4.0						4.0
Flyaway U/C											
Weapon System Proc U/C		-			0.0			_			0.0

The Modular Accessory Shotgun System (MASS) is a 12 gauge shotgun that attaches underneath the barrel of the M4 Carbine. The MASS can also be fired in a stand-alone mode. The MASS provides the capability to fire lethal, non-lethal, and door breaching 12 gauge rounds. The weapon system can be zeroed to the sighting system of the host weapon for improved accuracy.

#### Justification:

FY 2007 Supplemental procures 3,000 Modular Accessory Shotgun Systems. The MASS will provide deploying units a critical capability in the urban environment to breech doors, engage in close quarters combat, or fire non-lethal ammunition with a 12-ga shotgun.

(Dollars in Millions)

FY07 Baseline \$0.

FY07 Bridge \$0.

FY07 Supplemental \$4.0

Total Quantity 3,000

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and	other S		N, MOI	menclature: DULAR ACCESS	SORY SYSTEM (	MASS)	Weapon System	m Type:	Date:	February 2007
WTCV		ID		F	Y 05			FY 06			FY 07	
Cost Elemen	ts	CD	Total Co	ost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	) ]	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Modular Accessory Shotgun - Supplemental		В								3828	3000	1.276
Initial Spare Parts - Supplemental		В								63	3000	0.021
Engineering Support										34	1	
Integrated Logistics Support										25	5	
Fielding										25	5	
New Equipment Training (NET)										25	5	
Total:										4000	)	1

Exhibit P-5a, Budget Procurement	nt History and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other con	Weapon System Type:		Nomenclature: MODULAR ACCESSORY SY	STEM (MASS)	(G18300)		•			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each		Specs Avail Now?	Date Revsn Avail	RFI Issu Dat
Modular Accessory Shotgun - Supplemental FY 2007 S	Vertu Corporation Manassas, VA	Option FP	TACOM- Picatinny,Picatinny , NJ	Oct 07	Mar 08	3000	1.276	No	Mar 07	
Initial Spare Parts - Supplemental FY 2007 S	Vertu Corporation Manassas, VA	Option FP	TACOM- Picatinny, Picatinny , NJ	Oct 07	Mar 08	3000	0.021	No	Mar 07	

REMARKS:

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			1 0//		DGE.		ОВСС		11001	ПЕВС				SHOTG	UN, MO	DULAR	ACCES	SSORY	SYSTE	M (MAS	S) (G18:	300)			Februa	ry 2007				
	$\mathbf{C}$	OST	ELEN	1ENTS	}						Fiscal	Year 0	7										Fiscal Y	Year 08						
•		S	PROC	ACCEP	BAL									Calenda	ar Year (	07								Caler	ndar Ye	ar 08				
M		E	QTY	PRIOR	DUE									. 1 .								-								4
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Mo	dular A	ccessory	y Shotgun	- Supplen	nental																									
	FY 07 S	A	3000	0	3000													A					500	500	500	500	500	500		0
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100	<u></u>		3000	<u> </u>	5000	0	N	D	J	F	M	A	N	J	J	A	S	0	N	D	J	F	M	A	M	J	J	Α	S	
						C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	
M								PRODU	JCTION :	RATES						Α	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA	RKS				
F											Read	hed	/IFR			Pri	or 1 Oct	After	r 1 Oct	Aft	er 1 Oct		After 1	Oct						
R			Nan	ne - Locati	on		1	MIN	1-8-5	MAX	D	+	1	nitial			3		12		6		18							
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Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri- Procurement of W&TCV, Army / 2 /		ombat vehicles			P-1	Item Nomencla Common R	ature Remotely Operated W	eapons Station (Cl	ROWS) (G04700)	1 cordary 2007	
Program Elements for Code B Items:		Code:		Other F	Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					768						768
Gross Cost					220.0						220.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					220.0						220.0
Initial Spares											
Total Proc Cost					220.0						220.0
Flyaway U/C											
Weapon System Proc U/C											
D 1.4											

The Common Remotely Operated Weapon Station (CROWS) is a mount that provides the capability to remotely operate all standard US 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:

FY 2007 Supplemental procures 768 CROWS. Funding maintains a validated Army G3 Operational Needs Statement (ONS) delivery schedule and provides deploying units with critical Force protection capability.

(Dollars in Millions)

FY07 Baseline 0

FY07 Bridge 0

FY07 Supplemental \$220.0

FY07 Total \$220.0

Quantity 768

FY 2007 Supplemental will be subjected to a competitive procurement.

Exhibit P-5, Weapon WTCV Cost Analy	32.0	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and	other Con		omenclature: ely Operated Wea	pons Station (CR	OWS)	Weapon Syste	m Type:	Date:	February 2007
WTC	V		ID		FY 05			FY 06			FY 07	
Cost Elen	ent	s	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
1. HARDWARE - Supplemental												
CROWS system			A							195679	9 768	255
Vehicle Integration Kit			A							3420	6 768	4
2. Engineering Support										4959	9	
3. Integrated Logistics Support										5393	3	
4. First Destination Transportation										400	0	
5. Contractor Field Service												
Representatives										310:	5	
6. Spares/Repair Parts										703	8	
Total:										22000	0	

Exhibit P-5a, Budget Procurement	History and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat	Weapon System Type: vehicles		Nomenclature: notely Operated Weapons Stat	ion (CROWS) (C	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	RI Iss Da
1. HARDWARE - Supplemental										
CROWS system										
FY 2007 S	TBS TBS	Other*	TACOM-Picatinny, Picatinny, NJ	Jun 07	Aug 08	768	255	Yes		
Vehicle Integration Kit										
FY 2007 S	TBS TBS	C/FFP	TACOM-Picatinny, Picatinny, NJ	Jun 07	Aug 08	768	4	Yes		

REMARKS: \*Pending competition outcome, FY07 Supplemental Funds will procure CROWS Systems off an Indefinite Delivery Indefinite Quantity (IDIQ) contract.

		F	FY 07 /	08 BU	DGE	Γ PR(	ODUC	CTIO	N SCI	HEDU	LE			P-1 ITEI Common				apons St	tation (C	ROWS)	(G0470	0)	Dat	te:	Februa	ry 2007				
	C	OST	ELEN	IENTS							Fiscal '	Year 0'	7										Fiscal Y	Year 08	3					
		S	PROC	ACCEP	BAL									Calenda	r Year (	)7								Cale	ndar Ye	ar 08				_
M F	FY	E R	QTY Units	PRIOR TO	DUE AS OF	0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	1
R		V		1 OCT	1 OCT	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	Later
	ARDW.		Suppleme	ntal																										
1	FY 07	A	768	0	768									A														64	64	640
	S																													
.																														
Tot	al		768		768																							64	64	640
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								•					•	•	•					•					•	•				•
M								PRODU	JCTION :	RATES						Α	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA					
F											Reac	hed N	IFR			Pri	or 1 Oct	Afte	r 1 Oct	Af	ter 1 Oct		After 1	Oct	FY07 S Indefin	Supplemate Deliv	ental Fu zerv Ind	nding wi efinite O	ll go on uantity	the (IDIO)
R			Nan	ne - Locati	on		1	MIN	1-8-5	MAX	D-	+	1 I	nitial			3		8		15		23		contrac	et that wi	ill have l	oeen awa	rded ba	ised on the
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1. I	[ARDW]	ARE - S	Suppleme	ntal	•								•											•			•			
CR	OWS sy	stem																												
	FY 07 S	A	768	128	640	64	64	64	64	64	64	64	64	64	64															0
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M							I	PRODU	ICTION I	RATES						Α	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA	RKS				
F											Reach	ned M	FR			Prio	or 1 Oct	Afte	r 1 Oct	Aft	er 1 Oct		After 1	Oct						
R			Nam	ne - Locati	ion			MIN	1-8-5	MAX	D+		1 Init	ial			3		8		15		23							
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Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles		P	1 Item Nomencla M4 CARBI	ature INE MODS (GB300°	7)			
Program Elements for Code B Items:		Code:	Othe	r Related Program	m Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				158.	2					158.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				158.	2					158.2
Initial Spares										
Total Proc Cost				158.	2					158.2
Flyaway U/C										
Weapon System Proc U/C										

The M4 Carbine Modification Program provides Combat Optics, Close Quarters Battle Kit, and a Modular Weapon System (MWS). The MWS includes a rail system, a top carry sling, a flashlight mount, a quick attach bracket kit for the M203 Grenade Launcher, and a back-up iron sight. It also provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine.

#### Justification:

FY2007 Supplemental procures M4 Modular Weapon Systems (MWS), Close Quarters Battle Kits, improved combat optics (New Start), and RFI items as listed below. The MWS is a key component of Soldier lethality and allows the combat commander to custom configure weapons based upon the mission. The Back-up iron sight provides a permanent emergency capability in the event the optic becomes unusable. The Close Quarters Battle Kit provides the Soldier with multiple low cost items to increase lethality and survivability with the M4 carbine and/or M16A4 rifle. The improved combat optics will enhance the capability to identify and engage targets from 300 to 600m for long-range, first round hit. This system will enhance the Soldier's ability to conduct reflexive fire techniques and will allow for the Soldier to transition rapidly between long-range engagements and close quarters engagements. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units being deployed. These items include the optics, tactical weapon lights, bipods, forward grips, cleaning kits, improved buttstocks, and slings. The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force units.

(Dollars in Millions)
FY07 Baseline: \$15.4
FY07 Title IX: \$15.5
FY07 Supplemental: \$127.3
FY07 Total: \$158.2

Exhibit P-40N	M, Budget Item Justifi	cation Sheet						Date:	February 2007	7	
Appropriation / Budget	Activity / Serial No:				P-1 Item Nomeno	clature		•			
Procuremen	nt of W&TCV, Army / 2 / Weapons and	other combat vehicles			M4 (	CARBINE MODS	(GB3007)				
Program Elements for C	Code B Items:						Code:	Other R	elated Program Ele	ements:	
Description		Fiscal Years						<u> </u>			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Modular Weapon Sys	stem									<u>.</u>	
TBD1	Operational	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	11.
Combat Optics											
TBD2	Operational	0.0	0.0	0.0	70.1	0.0	0.0	0.0	0.0	0.0	70.
Close Quarters Battle	e Kit										
TBD3	Operational	0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.0	0.0	19.
Rapid Fielding Initiat	tive										
TBD4	Operational	0.0	0.0	0.0	57.7	0.0	0.0	0.0	0.0	0.0	57.
Totals		0.0	0.0	0.0	158.2	0.0	0.0	0.0	0.0	0.0	158.

Date:

February 2007

MODIFICATION TITLE: Modular Weapon System [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

#### DESCRIPTION / JUSTIFICATION:

The modular weapon is a system of mounting rails/methods to allow the custom configuration of M4 Carbines with ancillary items such as optics, night sights, Infrared (IR) laser pointers, the grenade launcher, etc. based upon mission requirements. The Modular Weapon System includes the adapter rail system, sling, back-up iron sight, improved buttstock and weapon flashlight mount.

#### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Developmental/Operational Tests 3Q95/2Q96 (Actual)

Milestone III Production Decision 4Q97 (Actual) Production Contract Award 4O97 (Actual)

First Production Hardware Delivered 4Q98 (Actual)

First Unit Equipped 2Q99 (Actual)

Installation Schedule

Inputs	

Outputs

Pr Yr		FY	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY :	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

[		FY:	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Installed by troops ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 1 months

Contract Dates: FY 2006 - FY 2007 - Mar 07 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - Apr 07 FY 2008 -

GB3007 Item No. 32 Page 3 of 11 M4 CARBINE MODS 128

Date: February 2007

MODIFICATION TITLE (cont): Modular Weapon System [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	05	20	06	200	07	20	08	20	09	20	10	20	11	T	C	Tot	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity (Rail Systems Only)																				
Quantity (Other Components)							42000												42000	
Installation Kits, Nonrecurring																				
Hardware								9.2												9.2
Equipment, Nonrecurring																				
Engineering Support								0.8												0.8
Testing																				
Integrated Logistical Support								0.5												0.5
Fielding								0.5												0.5
Engineering Study																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004& Prior Equip Kits																				
FY2004& Prior Other Equip																				
Kits																				
FY2005 Other Equip Kits																				
FY2006 Other Equip Kits																				
FY2007 Other Equip Kits							20000		22000										42000	
FY2008 Other Equip Kits																				
Total Installment	0	0.0	0	0.0				0.0				0.0		0.0		0.0	0	0.0	42000	0.0
Total Procurement Cost		0.0		0.0		0.0		11.0		0.0		0.0		0.0		0.0		0.0		11.0

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Date: February 2007

MODIFICATION TITLE: Combat Optics [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

#### DESCRIPTION / JUSTIFICATION:

A variety of combat optics are mounted on the M4 Carbine depending upon the mission requirement. All powered combat optics include a laser filter for eye protection. The Close Combat Optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity. The Close Combat Optic gives the Soldier greater hit probability in daylight, low light level, wet weather and other adverse conditions.

Several new improved combat optics are being evaluated with Research, Development, Test and Evaluation (RDTE) funds. The new selected combat optic will provide an improved capability to identify and engage targets from 300 to 600m (M4/M16) enhancing long-range first round hit. This system will not degrade the Soldier's ability to conduct reflexive fire techniques and will allow for the Soldier to transition rapidly between long-range engagements and close quarters engagements.

#### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Close Combat Optic:

First Unit Equipped

Developmental/Operational Tests 1Q/2Q96 (Actual)
Type Classification (LRIP) 4Q96 (Actual)
Production Contract Award 4Q96 (Actual)
First Production Hardware Delivered 1Q97 (Actual)

Improved Combat Optic:

Milestone B 2Q06 (Plan)

2098 (Actual)

Developmental / Operational Test 3Q06 (Plan)

Milestone C 4Q06 (Plan) First Unit Equipped 2Q07 (Plan)

#### Installation Schedule

	Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					
Ī																					

		FY 2	2010			FY 2	2011			FY :	2012			FY	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		
·																	·	·

GB3007 M4 CARBINE MODS Item No. 32 Page 5 of 11 130

		INDIVIDUAL MODIFICATION		Date: February 2007
METHOD OF IMPLEMENTATION:	Installed by troops	ADMINISTRATIVE LEADTIME:	3 months	PRODUCTION LEADTIME: 1 months
Contract Dates:	FY 2006 -		FY 2007 - Jun 07	FY 2008 -
Delivery Dates:	FY 2006 -		FY 2007 - Jul 07	FY 2008 -

MODIFICATION TITLE (cont): Combat Optics [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	05	20	06	20	07	20	08	200	)9	20	10	20	11	TO		Tot	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Close Combat Optics - Quantity							182214												182214	
Hardware								55.7												55.7
Improved Combat Optics - Qty							10500												10500	
Hardware								10.6												10.6
Equipment, Nonrecurring																				
Engineering Support								2.1												2.1
Testing																				
Integrated Logistical Support								1.0												1.0
Fielding								0.7												0.7
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits							13548		179162										192710	
Total Installment	0	0.0	0	0.0	0	0.0	13548	0.0	179162	0.0	0	0.0	0	0.0	0	0.0	0	0.0	192710	0.0
Total Procurement Cost		0.0		0.0		0.0		70.1		0.0		0.0		0.0		0.0		0.0		70.1

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February 2007

Date:

#### Date: February 2007 INDIVIDUAL MODIFICATION MODIFICATION TITLE: Close Quarters Battle Kit [MOD 3] TBD3 MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm) DESCRIPTION / JUSTIFICATION: The Close Quarters Battle Kit provides Soldiers with multiple low cost items to increase lethality and survivability with individual weapons. The Close Quarters Battle Kit will provide the following items: low profile bipods, cleaning kits, improved magazines, magazine pouches, multiple magazine holders with storage pouches, forward rail brackets and improved weapon slings. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S): Developmental/Operational Test 4Q05/3Q06 (Plan) Milestone C 3Q06 (Plan) First Unit Equipped 1007 (Plan) Installation Schedule Pr Yr FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 4 4 4 3 4 Totals 1 1 1 4 Inputs Outputs FY 2010 FY 2011 FY 2012 FY 2013 To Totals 3 4 3 3 1 2 4 4 1 2 3 4 Complete

METHOD OF IMPLEMENTATION:

Installed by troops

ADMINISTRATIVE LEADTIME:

4 months

PRODUCTION LEADTIME: 2 months

Contract Dates:

Inputs Outputs

FY 2006 -

FY 2007 - Jan 07

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 - Mar 07

FY 2008 -

Date: February 2007

MODIFICATION TITLE (cont): Close Quarters Battle Kit [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	05	20	06	20	07	20	08	20	09	20	10	20	11	Т	С	Tot	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity							45300												45300	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								17.8												17.8
Equipment, Nonrecurring																				
Engineering Support								0.8												0.8
Integrated Logistical Support								0.5												0.5
Fielding								0.3												0.3
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits							20000												20000	
FY 2007 Equip Kits									25300										25300	
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	20000	0.0	25300	0.0	0	0.0	0	0.0	0	0.0	0	0.0	45300	0.0
Total Procurement Cost		0.0		0.0		0.0		19.4		0.0		0.0		0.0		0.0		0.0		19.4

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						INDIV	IDUAI	MODI	FICA'	ΓΙΟΝ								]	Date:	February	2007			
MODIFICATION TI	TLE: Rap	oid Fieldi	ng Initiat	ive [MOI	0 4] TB	BD4																		
MODELS OF SYSTI	EM AFFE	ECTED: N	M4 Carbi	ne (5.56n	nm)																			
DESCRIPTION / JUSTIN A J	Global	War on																						
DEVELOPMENT ST	TATUS / I	MAJOR I	DEVELO	PMENT	MILES	STONE	(S):																	
Installation Schedule																								
	]	Pr Yr			FY 200	)5			F	Y 2006				FY 200	)7			FY	2008			FY	2009	
	7	Γotals	1	1 2	2	3	4	1	2	3	;	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs Outputs																								
		FY 2	2010			F	Y 2011				FY	2012			F	7 2013					То			Totals
	1	2	3	4	1	2	3	3	4	1	2	3	4	1	2	3		4		Cor	mplete			
Inputs																								
Outputs																								
METHOD OF IMPL	EMENTA	ATION:	Inst	alled by t	roops	ADM	IINISTR	RATIVE	LEAD	TIME:		3 mont	hs		PROI	UCTIO	N LEA	DTIME	3 mor	iths				
Contract Dates:			FY	2006 -								FY 200	7 - Jun 0	7				j	FY 2008 -					
Delivery Dates:			FY	2006 -								FY 200	7 - Sep (	7				]	FY 2008 -					

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# INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Rapid Fielding Initiative [MOD 4] TBD4

FINANCIAL PLAN: (\$ in Millions)

	Prior	r Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Multiple Items								56.0												56.0
Engineering Support								0.3												0.3
Testing																				
Integrated Logistic Support								0.5												0.5
Fielding								0.7												0.7
Engineering Study																				
Interim Contractor Support								0.2												0.2
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 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
Total Procurement Cost		0.0		0.0		0.0		57.7		0.0		0.0		0.0		0.0		0.0		57.7

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Exhibit P-40, Budget Item Justification Sheet								Date: February 2007				
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)							
Program Elements for Code B Items: 604601A S63		Code:		Other Related Progr								
	Prior Years	FY 2005	FY 2	006 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog		
Proc Qty												
Gross Cost					9.0					9.0		
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc P1					9.0					9.0		
Initial Spares												
Total Proc Cost					9.0					9.0		
Flyaway U/C												
Weapon System Proc U/C												

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: 1) quickly change the barrel without the need to reset the headspace and timing; 2) reduce the visible muzzle flash; and, 3) Add trigger block safety. 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 and improved sighting systems.

#### Justification:

FY 2007 Supplemental procures 485 M2A1 Quick Change Barrel Kits and other ancillary equipment for Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF). This funding provides critical Force Protection capability and safety improvements to the M2 Machine Gun.

(Dollars in Millions)
FY07 Baseline: -0FY07 Title IX: \$5.0
FY07 Supplemental: \$4.0
FY07 Total: \$9.0

Exhibit P-40M, Budget Item Justification Sheet									Date: February 2007			
Appropriation / Budget Activity / Serial No:					P-1 Item Nomenclature							
Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles					M2 50 Cal Machine Gun MODS (GB4000)							
Program Elements for C 604601A S63	Code B Items:				•		Code: B	Other R 604802	elated Program Elen A AS1	nents:		
Description		Fiscal Years										
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total	
M2A1 Quick Change	e Barrel Kit									•		
TBD1	Operational	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	9.	
•												
Totals		0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	9.	

Exhibit P-40M

Date:

February 2007

MODIFICATION TITLE: M2A1 Quick Change Barrel Kit [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED:

### 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, to reduce the visible muzzle flash to allow a trigger block safety. Other ancillary equipment.

# DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

User Assessment 2Q08 (Planned)
Type Classification - Standard 1Q09 (Planned)
First Unit Equipped 4Q09 (Planned)

Installation Schedule

Inputs Outputs

Pr Yr FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Totals 1 2 3 4 1 2 4 2 4 3 4 2 4 1 1090 100

FY 2010 FY 2011 FY 2012 FY 2013 To Totals 1 2 3 4 2 3 4 1 2 3 4 1 2 3 4 Complete 1090 Inputs Outputs 350 350 290 1090

METHOD OF IMPLEMENTATION: Depot Installed ADMINISTRATIVE LEADTIME: 19 months PRODUCTION LEADTIME: 11 months

Contract Dates: FY 2006 - FY 2007 - Nov 2008 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - Sep 2009 FY 2008 -

GB4000 M2 50 Cal Machine Gun MODS Item No. 33 Page 3 of 4 Exhibit P-3A 139 Individual Modification

Date: February 2007

MODIFICATION TITLE (cont): M2A1 Quick Change Barrel Kit [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior	r Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	7)	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Hardware							605	3.7											605	3.7
Hardware-S							485	3.0											485	3.0
Other ancillary equipment								0.3												0.3
Test Ammo								0.3												0.3
Engineering Support								0.6												0.6
Testing								0.2												0.2
Integrated Logistics Support								0.1												0.1
Fielding								0.2												0.2
Initial Spares								0.5												0.5
Other Government Agency								0.1												0.1
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits											700		390						1090	
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	700	0.0	390	0.0	0	0.0	0	0.0	1090	0.0
Total Procurement Cost		0.0		0.0		0.0		9.0		0.0	_	0.0		0.0		0.0		0.0		9.0

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 2 /		ombat vehicles			P-1	Item Nomencla M249 SAW	ature 7 Machine Gun MOD	OS (GZ1290)		1 cordary 2007	
Program Elements for Code B Items:		Code:		Other R	Celated Program	Elements:					
	Prior Years	FY 2005	FY 2	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty											
Gross Cost					18.8						18.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					18.8						18.8
Initial Spares											
Total Proc Cost					18.8						18.8
Flyaway U/C											
Weapon System Proc U/C											

# **Description:**

The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight machine gun that can be utilized in either the automatic rifle role or light machine gun role. Various system enhancements have been identified that improve the use of this weapon system. These include the addition of a feedtray cover rail and forward rail assemblies. Addition of these rails provides a MIL-STD-1913 interface allowing the mounting of standard military optics and other target designation devices directly to the machine gun. Improved components include an improved collapsible buttstock, improved bipod, and 200-round ammunition pack. Other items being procured to enhance Soldier performance include a Light Weight Ground Mount, Short Barrel, Short Barrel Blank Firing Attachment, Improved Sling Assembly, and an improved combat optic. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) additional items (such as pistol grips, rail covers, 100 round ammo packs, spare barrel bags, etc.) are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units deployed.

### **Justification:**

FY 2007 Supplemental procures 1,200 M192 Light Weight Ground Mounts, 12,660 100-round Soft Ammo Packs, 15,000 200-round Soft Pack Magazines, 15,000 M249 Dovetail Supports, 10,210 Short Barrels, 7,500 Short Barrel Blank Firing Attachments, 6,000 M249 Collapsible Buttstocks, 5,414 M249 Spare Barrel Bags and 2,341 M249 Rails. Funding rebaselines deploying units to include replacing lost, damaged or destroyed items and provides theater, deploying and transforming units with critical capability for their Soldiers. The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force Units.

(Dollars in Millions)
FY07 Baseline: \$5.2
FY07 Title IX: -0FY07 Supplemental: \$13.6
FY07 Total: \$18.8

Exhibit P-40N	M, Budget Item Justifi	cation Sheet						Date:	February 2007		
Appropriation / Budget	Activity / Serial No:				P-1 Item Nomeno	clature					
Procuremen	nt of W&TCV, Army / 2 / Weapons and	other combat vehicles			M24	9 SAW Machine C	Gun MODS (GZ12	90)			
Program Elements for C	Code B Items:						Code:	Other Ro	elated Program Elen	nents:	
Description		Fiscal Years					I	l			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
M249 Rails/Bipod/H	andguard								<u>.</u>		
TBD1	Operational	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
M249 Short Barrel/C	Coll Buttstock/Heatshield										<u>,                                      </u>
TBD2	Operational	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2
Light Weight Ground	d Mount										
TBD3	Operational	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
200 Rd Soft Pack Ma	ag/Barrel Bag/Sling Assembly										
TBD4	Operational	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.6
Rapid Fielding Initiat	tive										
TBD5	Operational	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	14.0
Closed Mods											
TBD6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		0.0	0.0	0.0	18.8	0.0	0.0	0.0	0.0	0.0	18.8

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Date: Fel

February 2007

MODIFICATION TITLE: M249 Rails/Bipod/Handguard [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: M249 Squad Automatic Weapon & Machine Gun

#### DESCRIPTION / JUSTIFICATION:

The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that will be utilized in the automatic rifle role and the machine gun role. The front rails will be fastened to the sides and bottom of the M249 SAW receiver. They will allow attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip, and horizontal handgrip.

When the SAW is used in the automatic rifle role, the bottom rail provides an attachment point for the vertical handgrip. The front side rails accommodate the devices when the weapon is used in either role. The Improved Bipod is stronger, compatible with the front and bottom rails, and has easier adjustability of bipod legs for the Soldier.

# DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Developmental/User Test 2Q00 (Actual)
Production Decision 3Q00 (Actual)
Production Contract Award 4Q00 (Actual)
First Production Hardware Delivered 3Q01 (Actual)
First Unit Equipped 3Q00 (Actual)\*

\* 300 pre-production rails delivered to Rangers

Instal	lation	N.C	hed	111	0

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

	FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION: Field Installation ADMINISTRATIVE LEADTIME: 1 months

Contract Dates: FY 2006 - FY 2007 - Jun 2007 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - Sep 2007 FY 2008 -

Item No. 34 Page 3 of 12 143

Date: Feb

February 2007

MODIFICATION TITLE (cont): M249 Rails/Bipod/Handguard [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	Т	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity (Various Components)							10000												10000	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								0.8												0.8
Equipment, Nonrecurring																				
Engineering Support								0.1												0.1
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits									6000		4000								10000	
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
FY2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	6000	0.0	4000	0.0	0	0.0	0	0.0	0	0.0	10000	0.0
Total Procurement Cost		0.0		0.0		0.0		1.0		0.0		0.0		0.0		0.0		0.0	·	1.0

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Date: F

February 2007

MODIFICATION TITLE: M249 Short Barrel/Coll Buttstock/Heatshield [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M249 Squad Automatic Weapon & Machine Gun

#### DESCRIPTION / JUSTIFICATION:

The M249 Machine Gun Short Barrel will provide a short version of the 5.56mm automatic weapon. The Short Barrel, when used in conjunction with the M5 Collapsible Buttstock, shortens the M249 SAW by more than 10 inches. As a result, the shorter weapon enhances operational capability by improving Military Operations in Urban Terrain (MOUT) maneuverability and Airborne/Air Assault jump capabilities. The Short Barrel Blank Firing Attachment allows realistic training with the Short Barrel currently not available to the Soldier.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Developmental/User Test 1Q00 (Actual)
Production Decision 2Q00 (Actual)
Production Contract Award 2Q01 (Actual)
First Production Hardware Delivered 3Q02 (Actual)
First Unit Equipped 4Q02 (Actual)

#### Installation Schedule

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

		FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Ī																		

METHOD OF IMPLEMENTATION: Field Installation ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 4 months

Contract Dates: FY 2006 - FY 2007 - Jun 2007 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - Sep 2007 FY 2008 -

GZ1290 M249 SAW Machine Gun MODS Item No. 34 Page 5 of 12 145

Date: February 2007

MODIFICATION TITLE (cont): M249 Short Barrel/Coll Buttstock/Heatshield [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	05	20	06	200	07	20	08	20	09	20	10	20	11	TO	C	Tot	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity (Various Components)							6000												6000	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								2.0												2.0
Equipment, Nonrecurring																				
Engineering Support								0.1												0.1
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits									3000		3000								6000	
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
FY2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	3000	0.0	3000	0.0	0	0.0	0	0.0	0	0.0	6000	0.0
Total Procurement Cost		0.0		0.0		0.0		2.2		0.0	_	0.0		0.0		0.0		0.0		2.2

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Date:

February 2007

MODIFICATION TITLE: Light Weight Ground Mount [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED: M249 Squad Automatic Weapon, Light Machine Gun

### DESCRIPTION / JUSTIFICATION:

The Light Weight Ground Mount will reduce the weight of the current tripod by approximately 7 lbs. It will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as contain a series of index marks that will enable gunners to construct a range data card.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Developmental/Operational Test 3003 (Actual) Type Classification (LRP) 2Q04 (Actual) **Production Contract Award** 2Q04 (Actual) First Production Hardware Delivered 2005 (Actual) First Unit Equipped 3Q05 (Actual)

#### Installation Schedule

Pr Yr		FY:	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Inputs Outputs
Outputs

Inputs Outputs

		FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
PLI	EMENTA	MENTATION: Field Installation ADMINISTRATIVE				IVE LEA	DTIME:	:	1 month	s		PRODU	CTION I	LEADTI	ME: 4 months			

METHOD OF IMPLEMENTATION:

Field Installation

FY 2007 - Jun 2007

FY 2008 -

Contract Dates: Delivery Dates: FY 2006 -FY 2006 -

FY 2007 - Sep 2007

FY 2008 -

GZ1290 M249 SAW Machine Gun MODS Item No. 34 Page 7 of 12 147

# INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Light Weight Ground Mount [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity							650												650	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								0.8												0.8
Equipment, Nonrecurring																				
Engineering Support								0.1												0.1
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding																				
New Equipment Training																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits									650										650	
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
FY2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	650	0.0	0	0.0	0	0.0	0	0.0	0	0.0	650	0.0
Total Procurement Cost		0.0		0.0		0.0		1.0		0.0		0.0		0.0		0.0		0.0		1.0

GZ1290 M249 SAW Machine Gun MODS Item No. 34 Page 8 of 12 148

Date:

February 2007

MODIFICATION TITLE: 200 Rd Soft Pack Mag/Barrel Bag/Sling Assembly [MOD 4] TBD4

MODELS OF SYSTEM AFFECTED:

### DESCRIPTION / JUSTIFICATION:

The 200-Round Soft Pack Magazine provides quiet operation and easy reloading with 200 round capacity. The M249 Sling Assembly provides improved durability, easier adjustability, improved human factors, and improved quick detach buckles. The Dovetail Support strengthens the magazine/weapon interface preventing unintended detaching of the magazine during rough handling. The Improved Barrel Bag provides superior durability to withstand hot barrels and improved carry capacity.

# DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Approved For Production 4Q05 (Actual)
Production Contract Award 3Q06 (Actual)
First Production Hardware Delivered 4Q06 (Projected)
First Unit Equipped 1Q07 (Projected)

#### Installation Schedule

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Inputs Outputs

Inputs Outputs

	FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION:

Field Installation

ADMINISTRATIVE LEADTIME:

FY 2007 - Jun 2007

1 months

PRODUCTION LEADTIME: 4 months

Contract Dates: Delivery Dates: FY 2006 -FY 2006 -

FY 2007 - Sep 2007

FY 2008 -FY 2008 -

GZ1290 M249 SAW Machine Gun MODS Item No. 34 Page 9 of 12 149

Date: February 2007

MODIFICATION TITLE (cont): 200 Rd Soft Pack Mag/Barrel Bag/Sling Assembly [MOD 4] TBD4

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	05	20	06	200	07	20	08	20	09	20	10	20	11	T	C	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity							10000												10000	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								0.4												0.4
Equipment, Nonrecurring																				
Engineering Support								0.2												0.2
Testing																				
Integrated Logistical Support																				
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits									10000										10000	
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	10000	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10000	0.0
Total Procurement Cost		0.0		0.0		0.0		0.6		0.0		0.0		0.0		0.0		0.0		0.6

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						INDI	IVIDUA	L MO	DIFIC	ATION									D	ate:	Februar	y 2007			
MODIFICATION T	ΓΙΤLE: Rap	oid Fieldii	ng Initiat	ive [MOI	O 5] TB	BD5																			
MODELS OF SYST	TEM AFFE	ECTED:																							
This funds the f	ollowing	items u																				s, M249	9 Dove	tail Sup	ports,
DEVELOPMENT S	STATUS / I	MAJOR I	DEVELC	PMENT	MILES	STON	E(S):																		
Installation Schedul	le																								
		Pr Yr			FY 200	05				FY 2006	5			FY 20	007				FY 2	2008			FY	2009	
	7	Γotals	1	1 2	2	3	4	1		2 :	3	4	1	2	3	4		1	2	3	4	1	2	3	4
Inputs																									
Outputs																									
	ELS OF SYSTEM AFFECTED:  RIPTION / JUSTIFICATION: funds the following items under the Rapid Fielding Initiative: M192 Light Weight Ground Mounts, Pistol Grips, Rail Covers, Accessory Rail Kits, M249 Dovetail Supports, no Packs, Short Barrel Blank Firing Attachments, Collapsible Buttstocks, M249 Spare Barrel Bags and improved combat optics.  ELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):  ation Schedule  Pr Yr																								
	1	1		4	1	-1	1	- 1	4	1	1	1	4	1		- 1		4			Co				101111
Inputs																									
Outputs																									
METHOD OF IMP	LEMENTA	ATION:	Fiel	d Installa	tion	AD	MINIST	RATIV	VE LEA	DTIME	:	1 mont	hs		PR	ODU	CTION	LEADT	IME:	4 mor	nths				
MODIFICATION TITLE: Rapid Fielding Initiative [MOD 5] TBD5  MODELS OF SYSTEM AFFECTED:  DESCRIPTION / JUSTIFICATION: This funds the following items under the Rapid Fielding Initiative: M192 Light Weight Ground Mounts, Pistol Grips, Rail Covers, Accessory Rail Kits, M249 Dovetail Supports Ammo Packs, Short Barrels, Short Barrel Blank Firing Attachments, Collapsible Buttstocks, M249 Spare Barrel Bags and improved combat optics.  DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):  Installation Schedule  Pr Yr FY 2005 FY 2006 FY 2007 FY 2008 FY 2009  Totals 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 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 1 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																									
Delivery Dates:			FY:	2006 -								FY 200	)7 - Sep	2007					F	Y 2008 -					

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Date: February 2007

MODIFICATION TITLE (cont): Rapid Fielding Initiative [MOD 5] TBD5

FINANCIAL PLAN: (\$ in Millions)

	Prior	r Yrs.	20	005	20	06	20	07	20	800	20	09	20	10	20	11	T	C	Tot	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
M249 Short Barrel							11060	5.6											11060	5.6
M249 Collapsible Buttstock							6000	2.1											6000	2.1
M192 Light Weight Ground							1200	1.6											1200	1.6
Mount																				
M249 Spare Barrel Bag							5414	1.7											5414	1.7
100 Round Soft Ammo Pack							12660	0.4											12660	0.4
200 Round Soft Pack Magazine							15000	0.6											15000	0.6
Dovetail Supports							15000	0.6											15000	0.6
M249 Short Barrel Blank Firing							7500	0.4											7500	0.4
Adapter																				
M249 Rail							2341	0.3											2341	0.3
Engineering Support								0.4												0.4
Integrated Logistical Support/Fielding								0.3												0.3
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits									47990		28185								76175	
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
FY2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	47990	0.0	28185	0.0	0	0.0	0	0.0	0	0.0	76175	0.0
Total Procurement Cost		0.0		0.0		0.0	0	14.0	41770	0.0	20103	0.0	0	0.0		0.0		0.0		14.0
		3.0	l .	1 3.0	1			10		2.0					l					

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seria Procurement of W&TCV, Army / 2 /		ombat vehicles			P-	Item Nomencla M240 Med	ature ium Machine Gun M	ODS (GZ1300)			
Program Elements for Code B Items:		Code:	1	Other I	Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty											
Gross Cost					8.9						8.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					8.9						8.9
Initial Spares											
Total Proc Cost					8.9						8.9
Flyaway U/C											
Weapon System Proc U/C											

# **Description:**

The M240B Medium Machine Gun replaces the M60 Series Machine Gun in Light Infantry, Mechanized Infantry, Armor, Rangers, Special Forces, and select Combat Engineer units. Since the initial fielding of the M240B, various system enhancements have been identified that further improves the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch, a spare barrel bag to transport and store overheated barrels, and an improved Light Weight Ground Mount. Additional enhancements include improved buttstock, bipod, sling, flash suppressor, short barrel, and collapsible buttstock. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured such as new equipment to units being deployed, to include M122A1 Tripods and Adapters, M240B Forward Rail Kits, M192 Light Weight Ground Mounts, M240 Light Weight Short Barrels, and M240 Spare Barrel Bags.

### **Justification:**

FY 2007 Supplemental procures 1,971 Collapsible Buttstocks, 205 M240B Combat Ammo Packs and 1,346 M192 Lightweight Ground Mounts. Funding rebaselines deploying units by replacing lost, damaged, or destroyed items. The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force Units.

(Dollars in Millions)
FY07 Baseline: \$5.3
FY07 Title IX: -0FY07 Supplemental: \$3.6
FY07 Total: \$8.9

Exhibit P-40N	M, Budget Item Justifi	cation Sheet						Date:	February 2007	7	
Appropriation / Budget	Activity / Serial No:				P-1 Item Nomeno	clature		•			
Procuremen	nt of W&TCV, Army / 2 / Weapons and	other combat vehicles			M24	10 Medium Machir	ne Gun MODS (GZ	(1300)			
Program Elements for C	Code B Items:						Code: A	Other F	telated Program Ele	ments:	
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
M240B System Impr	ovements										
TBD1		0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	5
M192 Light Weight (	Ground Mount										
TBD2		0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	3.
Rapid Fielding Initiat	tive										
TBD3		0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.
Closed Mods											
NA		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Totals		0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0	8

Date: February 2007

MODIFICATION TITLE: M240B System Improvements [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED:

#### DESCRIPTION / JUSTIFICATION:

The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun used to replace the M60 Series Machine Gun in Light Infantry, Mechanized Infantry, Armor, Rangers, Special Forces, and select Combat Engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles, and fortified positions. System enhancements have been identified by fielded units to further improve the reliability of this weapon system. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, providing an accessory ammunition pouch to improve forward assault fire capability, and an improved Blank Firing Adaptor to support increased training requirements. Additional enhancements include improved buttstock, bipod, sling, flash suppressor, short barrel, and collapsible buttstock.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Production Contract Award Aug 01 (Actual) First Production Hardware Delivered Jan 02(Actual) First Unit Equipped Feb 02 (Actual)

Inetal	llation	Sche	dule

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

	FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION:

Field Install

ADMINISTRATIVE LEADTIME:

4 months

PRODUCTION LEADTIME: 8 months

Contract Dates:

FY 2006 -

FY 2007 - Feb 2007

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 - Sep 2007

FY 2008 -

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Date: February 2007

MODIFICATION TITLE (cont): M240B System Improvements [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity (various items)							12300												12300	
Quantity (various items) - S							2176												2176	
Installation Kits, Nonrecurring																				
Hardware								4.8												4.8
Equipment, Nonrecurring																				
Engineering Support								0.2												0.2
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip																				
FY2005 Equip																				
FY2006 Equip																				
FY2007 Equip									10771		3705								14476	
FY2008 Equip																				
FY2009 Equip																				
FY2010 Equip																				
FY2011 Equip																				
TC Equip																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	10771	0.0	3705	0.0	0	0.0	0	0.0	0	0.0	14476	0.0
Total Procurement Cost		0.0		0.0		0.0		5.1	_	0.0	_	0.0		0.0		0.0		0.0		5.1

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Date: February 2007

MODIFICATION TITLE: M192 Light Weight Ground Mount [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED:

### DESCRIPTION / JUSTIFICATION:

The M192 Light Weight Ground Mount will reduce the weight of the current M122A1 tripod by approximately 50 percent. It will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as contain a series of index marks that will enable gunners to construct a range data card.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development/Operational Tests
Type Classification (STD)
Production Contract Award
First Production Hardware Delivered
First Unit Equipped

3Q-4Q FY03 (Actual)
2Q FY04 (Actual)
2Q FY04 (Actual)
3Q FY05 (Actual)

#### Installation Schedule

-
Inputs
Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

[		FY:	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Field Install ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 19 months

Contract Dates: FY 2006 - FY 2007 - Nov 2006 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - May 2008 FY 2008 -

Date: Febr

February 2007

MODIFICATION TITLE (cont): M192 Light Weight Ground Mount [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	05	20	06	20	07	20	08	20	09	20	10	20	11	Т	С	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity							682												682	
Quantity - S							1346												1346	
Installation Kits, Nonrecurring																				
Hardware								3.3												3.3
Equipment, Nonrecurring																				
Engineering Support								0.2												0.2
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding																				
New Equipment Training																				
Studies																				
Installation of Hardware																				
FY2004 & Prior Equip																				
FY2005 Equip																				
FY2006 Equip																				
FY2007 Equip									2028										2028	
FY2008 Equip																				
FY2009 Equip																				
FY2010 Equip																				
FY2011 Equip																				
TC Equip																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	2028	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2028	0.0
Total Procurement Cost		0.0		0.0		0.0		3.6		0.0		0.0		0.0		0.0		0.0		3.6

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					INI	<b>DIVIDU</b>	AL MOI	DIFIC	CATION										Date:	Februar	y 2007			
MODIFICATION TI	TLE: Ra	pid Fieldi	ng Initiat	ive [MOD	3] TBD3																			
MODELS OF SYSTI	EM AFF	ECTED:																						
DESCRIPTION / JUST This funds the fo M240 Light Weig	llowing	gitems					ive: M	122 <i>A</i>	A1 Trip	ods, M	I122A	1 Trip	od Ac	dapteı	rs, M2	40B F	orwai	rd Rail	Kits, M	[192 Li	ght We	ight Gr	ound M	Iounts,
DEVELOPMENT ST	TATUS /	MAJOR	DEVELC	PMENT	MILESTO	NE(S):																		
Installation Schedule																								
		Pr Yr		F	FY 2005				FY 200	6			F	Y 2007	,			FY	2008			FY	2009	
		Totals	1	2	3	4	1		2	3	4	1	2		3	4	1	2	3	4	1	2	3	4
Inputs																								
Outputs																								
		FY 2010 FY 2011								F	Y 2012				FY	2013					То			Totals
	1	2	3	4	1	2	3	4	1	2	3		4	1	2	3		4		Co	mplete			
Inputs																								
Outputs																								
METHOD OF IMPL	EMENTATION: Field Install ADMINISTRA						TRATIV	E LE	ADTIM	∃:	1 mc	onths			PROD	UCTIO	N LEA	ADTIME	E: 19 m	onths				
Contract Dates:	FY 2006 -										FY 2	2007 - N	ov 200	)6					FY 2008	-				
Delivery Dates:	FY 2006 -								FY 2	2007 - M	1ay 200	08					FY 2008	-						

GZ1300 Item No. 35 Page 7 of 8 Exhibit P-3A M240 Medium Machine Gun MODS 159 Individual Modification

# INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Rapid Fielding Initiative [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity (various items)							118												118	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								0.2												0.2
Engineering Support																				
Integrated Logistical Support																				
Fielding																				
Testing																				
Studies																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip																				
FY2005 Equip																				
FY2006 Equip																				
FY2007 Equip									118										118	
FY2008 Equip																				
FY2009 Equip																				
FY2010 Equip																				
FY2011 Equip																				
TC Equip																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	118	0.0	0	0.0	0	0.0	0	0.0	0	0.0	118	0.0
Total Procurement Cost		0.0		0.0		0.0		0.2	_	0.0		0.0	_	0.0		0.0		0.0	_	0.2

Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 2 /		ombat vehicles		P-1	Item Nomencla PHALANX	ature MODS (GL1000)				
Program Elements for Code B Items:		Code:	Other 1	Related Program	Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				150.0						150.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				150.0						150.0
Initial Spares										
Total Proc Cost				150.0						150.0
Flyaway U/C										
Weapon System Proc U/C										
Description:		13.5	(0.7.13.6)					C' 11		

The Phalanx gun is part of the Counter-Rockets, Artillery and Mortars (C-RAM) system. The primary mission of the C-RAM program is to develop, procure, field and maintain a system that can detect rocket, artillery or mortar launches; warn the defended area with sufficient time for personnel to take cover; intercept rounds in flight, thus preventing damage to ground forces or facilities; and enhance response to and defeat of enemy forces. C-RAM utilizes a system of systems (SoS) approach, and is comprised of a combination of multi-service fielded and non-developmental item (NDI) sensors, command and control (C2) systems and a modified U.S. Navy intercept system, with a low cost commercial off-the-shelf (COTS) warning system and wireless local area network. The system will be fielded to various echelons, fixed or semi-fixed-site, providing them correlated air and ground pictures and linking them to the Army Battle Command System (ABCS) and the Joint Defense Network (JDN), via various forms of communications, to provide situational awareness and exchange of timely and accurate information to synchronize and optimize automated Shape, Sense, Warn, Intercept, Respond and Protect decisions. The current Intercept capability is provided by Land Based Phalanx Weapon Systems (LPWS) (a Navy Phalanx gun system mounted on a trailer). The LPWS are procured from the Navy, modified by a Navy contractor, and supported by Navy logistical services.

The C-RAM Increment I Capabilities Production Document (CPD) is currently undergoing Department of the Army staffing for Army Requirements Oversight Council (AROC) approval. Joint Requirements Oversight Council (JROC) validation is expected subsequent to Army validation. The C-RAM Program Office has fielded equipment to six Forward Operating Bases (FOBs) (Sense, Warn and Intercept to one (1) FOB; Sense and Warn to five (5) additional FOBs). The C-RAM SoS approach was validated by a Proof of Principle demonstration in December 2004 and three (3) Army Test and Evaluation Command (ATEC) tests in February, April and November-December 2005. C-RAM will be managed as an ACAT I program upon formal designation as a program of record.

FY07 Baseline \$ 0.0 FY07 Bridge \$ 0.0 FY07 Supplemental \$150.0 FY07 Total \$150.0 Quantity 16

#### Justification:

GL1000 Item No. 36 Page 1 of 5
PHALANX MODS 161

Exhibit P-40, Budget Item Justif	ication Sheet			Date: February 2007
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons	and other combat vehicles		P-1 Item Nomenclature PHALANX MODS (GL1000)	-
Program Elements for Code B Items:	Code:	Other Related Pro	gram Elements:	
FY07 supplemental funding will procure and fi	deld sixteen (16) U.S. Nav	y LPWS with spares, insta	allation and on-site contractor support at 3 FOBs.	

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weaps combat vehicles	ons and		P-1 Line Item N PHALANX MO	Iomenclature: DDS (GL1000)			Weapon Syste	em Type:	Date:	February 2007
WTCV		ID	•	FY 05	;		FY 06			FY 07	
Cost Elemen	ts	CD	Total Co	ost Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
1. System Integration/ Hardware-Baseline											
2. Project Management Admin- Baseline											
Total - Baseline											
1. System Integration/Hardware- Bridge											
2. Project Management Admin - Bridge											
Total - Bridge											
1. System Integration/Hardware- Supp									14285	8 16	8929
2. Project Management Admin - Supp									714	2	
Total - Supplemental									15000	0	
Total:									15000	0	

Exhibit P-5a, Budget Procuren	nent Histor	ry and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other	combat vehicles	Weapon System Type:	P-1 Line Item PHALANX M	Nomenclature: IODS (GL1000)							
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	RFF Issue Date
1. System Integration/Hardware- Supp					Y 07	D 05	1.5	0020	.,	27/4	
FY 2007	PM Phala Tucson A	nnx/Raytheon AZ	MIPR	Tucson, AZ	Jun 07	Dec 07	16	8929	N	N/A	N/A

REMARKS: Procured through MIPR to Navy PM Phalanx.

		F	Y 07 /	'08 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	JLE			P-1 ITEN PHALA									Dat	te:	Februa	ry 2007				
	C	OST I	ELEM	IENTS	}						Fiscal `	Year 07	,	•									Fiscal Y	Year 08	1					
			1	1	1				ı												ı									
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 0	7								Cale	ndar Ye	ar 08				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
1.	System I	ntegrati	on/Hardv	vare- Supp	)				- '	5							-	•			-,				-	- '		Ü		<u> </u>
	FY 07	A	16											A						4	4	4	4							0
															<u> </u>															
															<b></b>															
															$\vdash$															
Tot	al		16		16															4	4	4	4							
						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 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	
							,		- 11	ь	K	K	1	14		0	1			C	14	ь	K	K		11	ь	G		1
M								PRODU	ICTION :	RATES						Α	DMIN I	LEAD T	IME		MFR		TOTA	AL	REMA	RKS				1
F											Reac	hed M	FR			Pric	or 1 Oct	Afte	r 1 Oct	Aft	ter 1 Oct		After 1	Oct						
R			Nam	ne - Locati	on		1	MIN	1-8-5	MAX	D-	+	1 Iı	nitial			0		9		6		15							
1	PM Ph	alanx/R	aytheon,	Tucson A	Z			2	2	6			R	leorder			0		9		6		15							
													Iı	nitial																
													R	eorder																
													Iı	nitial																
													R	eorder																
													-	nitial																
													R	eorder											_					
	1												-	nitial											_					
					Reor								eorder		1		1		l											

Exhibit P-40, Budget Item	Justification	Sheet						Date:	February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles		P	1 Item Nomencla M16 RIFLI	ature E MODS (GZ2800)				
Program Elements for Code B Items:		Code:	Othe	r Related Prograi	m Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				3.	0					3.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				3.	0					3.0
Initial Spares										
Total Proc Cost				3.	0					3.0
Flyaway U/C										
Weapon System Proc U/C										

# **Description:**

The M16 Rifle Modifications Program provides a Close Combat Optic (CCO), (New Start) improved combat optic and a Modular Weapon System (MWS) suite for the M16A4 Rifle. The MWS includes a rail system, a flashlight mount, a quick attach bracket kit for the M203 Grenade Launcher, and back-up iron sight for the M16A4 Rifle. Based on mission requirements, the MWS allows the custom configuration of M16 Rifles with accessories and smaller items, i.e., optics, night sights, and laser pointers.

### **Justification:**

The FY2007 Supplemental procures M16 Modular Weapon Systems (MWS) and improved combat optics (New Start). The MWS is a key component of the individual Soldier lethality and allows the combat commander to custom configure weapons with various accessories based upon the mission. The FY07 Supplemental request includes RFI lethality packages and equipment for training units and in-theater Security Force units.

(Dollars in Millions)
FY07 Baseline: \$1.0
FY07 Bridge: 0
FY07 Supplemental: \$2.0
FY07 Total: \$3.0

Exhibit P-40M, Bud	lget Item Justificati	on Sheet						Date:	February 2007	7	
Appropriation / Budget Activity / S	erial No:				P-1 Item Nomen	clature					
Procurement of W&TO	CV, Army / 2 / Weapons and other	combat vehicles			M10	6 RIFLE MODS (C	GZ2800)				
Program Elements for Code B Item	s:						Code:	Other I	Related Program Ele	ments:	
Description		Fiscal Years						•			
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Modular Weapon System M16	/M203		•							<u>.</u>	
TBD1	Operational	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7
Combat Optics											
TBD4	Operational	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Totals		0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0

Date:

February 2007

4

FY 2009

4

MODIFICATION TITLE: Modular Weapon System M16/M203 [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: Rifle, 5.56mm M16A4

### DESCRIPTION / JUSTIFICATION:

The M16 Modular Weapon System (MWS) is a system of mounting rails/methods that allow the custom configuration of M16 Rifles with accessories and ancillary items such as optics, night sights, infrared aiming lights, and grenade launchers. The MWS includes the adapter rail system, close quarters battle kit, sling, back-up iron sight, and weapon flashlight mount.

#### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Developmental/Operational Tests 3Q95/2Q96 (Actual)

Milestone III Production Decision 3Q97 (Actual)
Production Contract Award 4Q97 (Actual)
First Production Hardware Delivered 4Q98 (Actual)

First Unit Equipped 2Q99 (Actual)

Installation Schedule

	Pr Yr		FY 2	2005			FY 2	2006			FY :	2007			FY :	2008
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Inputs																
Outputs																

		FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Installed by troops ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 1 months

Contract Dates: FY 2006 - FY 2007 - Jan 07 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - Feb 07 FY 2008 -

GZ2800 Item No. 39 Page 3 of 6 Exhibit P-3A M16 RIFLE MODS 168 Individual Modification

Date: Fe

February 2007

MODIFICATION TITLE (cont): Modular Weapon System M16/M203 [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	TO	2	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity (Rail Systems Only)																				
Quantity (Other Components)							2600												2600	
Installation Kits, Nonrecurring																				
Hardware								2.3												2.3
Equipment, Nonrecurring																				
Engineering Support								0.2												0.2
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding								0.1												0.1
Engineering Study																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Other Equip Kits																				
FY2006 Other Equip Kits																				
FY2007 Other Equip Kits							600		2000										2600	
FY2008 Other Equip Kits																				
FY2009 Other Equip Kits																				
FY2010 Other Equip Kits																				
FY2011 Other Equip Kits																				
TC Other Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	600	0.0	2000	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2600	0.0
Total Procurement Cost		0.0		0.0		0.0		2.7		0.0		0.0		0.0		0.0		0.0		2.7

Item No. 39 Page 4 of 6 169

Date:

February 2007

MODIFICATION TITLE: Combat Optics [MOD 2] TBD4

MODELS OF SYSTEM AFFECTED: Rifle, 5.56mm M16A4

### DESCRIPTION / JUSTIFICATION:

Several new combat optics are being evaluated with Research, Development, Test and Evaluation (RDTE) funds. The selected combat optic will provide an improved capability to identify and engage targets from 300 to 600m (M4/M16) enhancing long-range first round hit. This system will not degrade the Soldier's ability to conduct reflexive fire techniques and will allow for the Soldier to transition rapidly between long-range engagements and close quarters engagements.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Milestone B 2Q06(Plan)

Developmental/Operational Test 3Q06 (Plan)

Milestone C 4Q06 (Plan)

First Unit Equipped 2Q07 (Plan)

Installation Schedule

Pr Yr		FY	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Inputs Outputs

Inputs Outputs

	FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION:

Installed by troops FY 2006 -

ADMINISTRATIVE LEADTIME:

3 months FY 2007 - Jan 07 PRODUCTION LEADTIME: 1 months

FY 2008 -

Contract Dates: Delivery Dates:

FY 2006 -

FY 2007 - Feb 07

FY 2008 -

GZ2800 M16 RIFLE MODS Item No. 39 Page 5 of 6 170

# INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Combat Optics [MOD 2] TBD4

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	200	07	20	08	20	09	20	10	20	11	TO		To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity							200												200	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								0.2												0.2
Equipment, Nonrecurring																				
Engineering Support								0.1												0.1
Testing																				
Integrated Logistical Support																				
Total Package Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip Kits																				
FY 2005 Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits							200												200	
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	200	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	200	0.0
Total Procurement Cost		0.0		0.0		0.0		0.3		0.0		0.0		0.0		0.0		0.0		0.3

GZ2800 M16 RIFLE MODS Item No. 39 Page 6 of 6 171

Exhibit P-40, Budget Item	Justification	Sheet						Date:		
, 6									February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles		P-1	Item Nomencla MODIFICA	ature ATIONS LESS THAI	N \$5.0M (WOCV-	WTCV) (GC0925)		
Program Elements for Code B Items:		Code:		Related Program	Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				23.1						23.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				23.1						23.1
Initial Spares										
Total Proc Cost				23.1						23.1
Flyaway U/C										
Weapon System Proc U/C										

# **Description:**

This program procures modifications of weapons with a cost less than \$5.0 million to specifically include the M145 Machine Gun Optic Sights and an improved combat optic. The M145 Machine Gun Optic Program provides a 3.4x, laser-hardened telescopic sight for the 7.62mm M240B Medium Machine Gun and selected 5.56mm M249 Light Machine Gun. The optic sight will allow the Soldier to identify and engage targets at longer ranges and at lower light levels more effectively than the existing iron sighting system. The optic sight also provides the Soldier with a greater hit probability.

#### **Justification:**

FY 2007 Supplemental procures 3,850 M145 Machine Gun Optic Sights and 18,968 improved combat optics for the M240B and M249 Machine Guns. The optic sight will allow the Soldier to identify and engage targets more effectively than the existing iron sighting system. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to deploying units. The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force Units.

(Dollars in Millions)
FY07 Baseline: \$1.7
FY07 Title IX: -0FY07 Supplemental: \$21.4
FY07 Total: \$23.1

Exhibit P-40N	M, Budget Item Justif	ication Sheet						Date:	February 2007		
Appropriation / Budget	Activity / Serial No:				P-1 Item Nomeno	clature					
Procuremen	nt of W&TCV, Army / 2 / Weapons and	other combat vehicles			MO	DIFICATIONS LE	SS THAN \$5.0M	(WOCV-WTCV)	(GC0925)		
Program Elements for C	ode B Items:						Code: A	Other R	elated Program Elei	ments:	
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
M145 Machine Gun	Optic										
TBD1	Operational	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	5.3
Improved Combat Op	ptic										
TBD2	Operational	0.0	0.0	0.0	17.8	0.0	0.0	0.0	0.0	0.0	17.8
Closed Mods											
TBD3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		0.0	0.0	0.0	23.1	0.0	0.0	0.0	0.0	0.0	23.1

Date: February 2007

MODIFICATION TITLE: M145 Machine Gun Optic [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: M240B Machine Gun, M249 Light Machine Gun

#### DESCRIPTION / JUSTIFICATION:

The M145 Machine Gun Optic Program provides a 3.4x, laser hardened telescopic sight for the 7.62mm M240B Medium Machine Gun and selected 5.56mm M249 Light Machine Guns. The optic sight will allow the Soldier to identify and engage targets at longer ranges and at lower light levels more effectively than the existing iron sighting system. The optic sight also provides the Soldier with a greater hit probability.

### DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Developmental/Operational Test 3Q98 (Actual)
Type Classification (LRP) 4Q98 (Actual)
Production Contract Award 4Q98 (Actual)
First Production Hardware Delivered Type Classification (Standard) 1Q00 (Actual)
First Unit Equipped 2Q00 (Actual)

#### Installation Schedule

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2005			FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

-																		
		FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	

METHOD OF IMPLEMENTATION: Field Install ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 5 months

 Contract Dates:
 FY 2006 FY 2007 - April 2007
 FY 2008 

 Delivery Dates:
 FY 2006 FY 2007 - Aug 2007
 FY 2008 

## INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): M145 Machine Gun Optic [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	Т	С	Tot	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Hardware							1306	1.2											1306	1.2
Hardware - S							3850	3.7											3850	3.7
Installation Kits, Nonrecurring																				
Equipment, Nonrecurring																				
Engineering Support								0.4												0.4
Testing																				
Integrated Logistical Support																				
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits							1306		3850										5156	
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
FY2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	1306	0.0	3850	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5156	0.0
Total Procurement Cost		0.0		0.0		0.0		5.3		0.0		0.0		0.0		0.0		0.0		5.3

						INDI	VIDUA	L M	ODIFIC	ATION									Ι	ate:	February	2007			
MODIFICATION T	TLE: Imp	proved Co	ombat O	ptic [MC	DD 2] T	TBD2																			
MODELS OF SYST	EM AFFI	ECTED: 1	M249 Sq	uad Aut	omatic	Weapon	(Short	Barre	el), M240	)B Medi	um Macl	nine Gu	un												
DESCRIPTION / JU	STIFICA'	TION:																							
This funds the in	nproved	comba	t optic	for the	M24	9 SAW	/ unde	r the	Rapid	Fieldi	ng Initi	ative.													
DEVELOPMENT S' Milestone C is so					T MIL	ESTONI	E(S):																		
Installation Schedule																									
		Pr Yr			FY 20	005				FY 200	6			F	Y 2007	7			FY	2008			FY 2	2009	
	-	Γotals		1	2	3	4	1	1	2	3	4	1	2		3	4	1	2	3	4	1	2	3	4
Inputs																									
Outputs																									
		FY 2	2010			j	FY 201	1			FY	2012				FY	2013					То			Totals
	1	2	3	4	1	2	2	3	4	1	2	3	1	4	1	2	3		4		Cor	nplete			
Inputs																									
Outputs																									
METHOD OF IMPL	EMENTA	ATION:	Fie	ld Instal	1	ADI	MINIST	RAT.	IVE LEA	ADTIME	Ξ:	5 mc	onths			PROD	JCTION	I LEA	DTIME:	2 mon	iths				
Contract Dates:			FY	2006 -									2007 - A	-					F	Y 2008 -					
Delivery Dates:			FY	2006 -								FY 2	2007 - S	ep 07					F	Y 2008 -					

# INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Improved Combat Optic [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	005	20	06	20	07	20	08	20	09	20	10	20	11	T	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity							191	0.2											191	0.2
Quantity - S							18968	17.1											18968	17.1
Hardware																				
Equipment, Nonrecurring																				
Engineering Support								0.3												0.3
Testing																				
Integrated Logistical Support								0.1												0.1
Fielding								0.1												0.1
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits							3000		16159										19159	
FY2008 Equip Kits																				
FY2009 Equip Kits																				
FY2010 Equip Kits																				
FY2011 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	3000	0.0	16159	0.0	0	0.0	0	0.0	0	0.0	0	0.0	19159	0.0
Total Procurement Cost		0.0		0.0		0.0		17.8		0.0		0.0		0.0		0.0		0.0		17.8

Exhibit P-40, Budget Item	Justification	Sheet					]	Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 2 /	al No: Weapons and other co	ombat vehicles		]	P-1 Item Nomenc ITEMS L	lature ESS THAN \$5.0M (W	/OCV-WTCV) (GL	3200)	Teeruary 2007	
Program Elements for Code B Items:		Code:		ther Related Progra	am Elements:					
	Prior Years	FY 2005	FY 20	06 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				(	5.2					6.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				(	5.2					6.2
Initial Spares										
Total Proc Cost				(	5.2					6.2
Flyaway U/C										
Weapon System Proc U/C										
r										

Provides for procurement and assembly of tool and shop sets, small arms, auxiliary weapon mounts, mounting platforms, and adaptors. The tool and shop equipment have multiple applications and are essential to all levels of weapon and combat vehicle maintenance. Small arms procured under this budget activity consist of shotguns, grenade launchers, and personal defense weapons for initial buys or to meet urgent needs. Auxiliary weapon mounts, mounting platforms, and adapters include the M3 Tripod (mount for M2/MK19 Machine Guns), the Swing Arm Mount, the HMMWV Auxiliary Weapon Mount, the M66 cantilever Arm (mounting platforms used to mount machine guns to the frames of HMMWV's), and the MK93 Adapter. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) additional items are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units about to be deployed.

#### Justification:

FY2007 Supplemental procures the 3,000 M9 pistols and 2,600 M3 tripods.

(Dollars in Millions) FY07 Baseline: \$2.1 FY07 Title IX: 0 FY07 Supplemental: \$4.1

FY07 Total: \$6.2

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and				menclature: (AN \$5.0M (WOO	CV-WTCV) (GL3	200)	Weapon System	m Type:	Date:	February 2007
WTCV		ID		F	Y 05			FY 06			FY 07	
Cost Elemen	ts	CD	Total C	Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	) 1	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
1. M9 Pistol - Baseline		A								1592	5300	0.3
2. M9 Pistol - Supplemental		Α								900	3000	0.3
3. Shop Equip, Small Arms Repair - Base										67	1	67.0
4. Shop Set, Small Arms FM - Baseline										43	2	21.5
5. Eng/Log/Fld Spt of Accessory Wpns										75		
6. Tool Set, Ammo, FM - Baseline										144	4	36.0
7. Program Support										13		
8. XM320 Grenade Launcher Module - Base		В								228	93	2.5
9. M3 Tripod -Supplemental		A								3111	2600	1.2
Total:										6173		

Exhibit P-5a, Budget Procure	ement History	and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and oth		Weapon System Type:	P-1 Line Item ITEMS LESS	Nomenclature: THAN \$5.0M (WOCV-WTO	CV) (GL3200)						
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
1. M9 Pistol - Baseline											
FY 2007 Base	Beretta U.S Accokeek, I			TACOM-RI, ROCK ISLAND IL	Mar 07	May 07	5300	0.3	Yes		
2. M9 Pistol - Supplemental											
FY 2007 S	Accokeek, ME			TACOM-RI, ROCK ISLAND IL	Jul 07	Sep 07	3000	0.3	Yes		
3. Shop Equip, Small Arms Repair - Base											
FY 2007 Base	Rock Island Rock Island		REQN/FFP	TACOM-RI, ROCK ISLAND IL	Dec 06	Apr 07	1	67.0	Yes		
6. Tool Set, Ammo, FM - Baseline											
FY 2007 Base	Rock Island Rock Island		REQN/FFP	TACOM-RI, ROCK ISLAND IL	Dec 06	Dec 07	4	36.0	Yes		
8. XM320 Grenade Launcher Module - Base											
FY 2007 Base	Heckler & I Sterling, V	Koch Defense Inc	Option/FFP	TACOM-Picatinny, Picatinny, NJ	Oct 07	Dec 07	93	2.5	Yes		
9. M3 Tripod -Supplemental											
FY 2007 S	TBS TBS		C/FFP	TACOM-RI, ROCK ISLAND IL	Jun 07	Mar 08	2600	1.2	Yes		

REMARKS:

Exhibit P-40, Budget Item	Justification	Sheet						Date:	E.I. 2007	
				1					February 2007	
Appropriation / Budget Activity / Ser Procurement of W&TCV, Army / 2		ombat vehicles		P	-1 Item Nomencla SMALL Al	ature RMS EQUIPMENT	(SOLDIER ENH P	ROG) (GC0076)		
Program Elements for Code B Items:		Code:	Othe	er Related Progra	m Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				10	9					10.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				10	9					10.9
Initial Spares										
Total Proc Cost				10	.9					10.9
Flyaway U/C										
Weapon System Proc U/C										

This program provides ancillary small arms equipment to the Soldier and equipment for the Soldier Enhancement Program (SEP). The mission of SEP is to identify and evaluate commercially available individual weapons, munitions, accessories, etc., which can be adopted and provided to Soldiers in three years or less. The nature of the items determine the acquisition strategy, market survey, candidate evaluation, down select method, scope of testing, adoption decision and fielding process. Each year nearly 125+ proposals are received and reviewed for suitable solutions to keep up with ever-changing technologies for new and improved ways to equip and maintain our forces. Proposals that match up with user deficiencies are presented at the Semi-annual PEO Soldier / TRADOC SEP review and compete for funding in the upcoming fiscal year. Also included within this funding line is equipment for the Rapid Fielding Initiative (RFI), which includes the Laser Rangefinder (FY2007 New Start) for the Grenade Launcher. The Laser Rangefinder is a hand-held Commercial Off the Self (COTS) item.

#### **Justification:**

FY 2007 Supplemental procures the M203 Day Night Sight (DNS) and Laser Rangefinder (New Start). The Laser Rangefinder is a hand-held Commercial Off the Self (COTS) item. The FY07 Supplemental request also includes RFI lethality packages and equipment for mobilization training sets and in-theater Security Force units.

(Dollars in Millions)
FY07 Baseline: \$2.7
FY07 Title IX: 0
FY07 Supplemental:\$8.2
FY07 Total \$10.9

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapo combat vehicles	ns and	other		ARMS E	menclature: EQUIPMENT (SC	OLDIER ENH PR	OG)	Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		I	FY 05			FY 06			FY 07	
Cost Elemen	ts	CD	Total C	lost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	)	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
1. HARDWARE												
Family of Small Arms Suppressors - Base		В								350	0 450	
Advanced Sniper Accessory Kit - Baseline		В								20-	4 72	3
Close Combat Mission Capability Kit - B		В								670	0 7769	
Rapid Fielding Initiative - Baseline										260	0	
M203 Day/Night Sight - Supplemental		Α								6573	8 6637	
Laser Rangefinder - Supplemental		Α								1412	2 3530	
2. ENGINEERING SUPPORT										700	0	
3. FIELDING										5′	7	
4. NEW EQUIPMENT TRAINING										110	0	
5. MATERIEL RELEASE										450	0	
6. PM Soldier Weapon Support										150	0	
Total:										1094	1	

Exhibit P-5a, Budget Procu	rement History and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and	Other combat vehicles Weapon System Type:		Nomenclature: IS EQUIPMENT (SOLDIER	ENH PROG) (G	C0076)					
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	RFI Issu Date
Family of Small Arms Suppressors - Base										
FY 2007 Base	TBS TBS	C/FFP	TACOM-Picatinny, Picatinny, NJ	Dec 06	Feb 07	450		Yes		
Advanced Sniper Accessory Kit - Baseline										ł
FY 2007 Base	TBS TBS	TBS	TACOM-Picatinny, Picatinny, NJ	Dec 06	Dec 06	72	3	Yes		
Close Combat Mission Capability Kit - B										1
FY 2007 Base	SNC Technology Canada	SS/FFP	TACOM-Picatinny, Picatinny, NJ	Dec 06	Feb 07	800		Yes		
FY 2007 Base	TBS TBS	TBS	TACOM-Picatinny, Picatinny, NJ	Dec 06	Feb 07	4564		Yes		
FY 2007 Base	Ultimate Training Munitions United Kingdom	SS/FFP	TACOM-Picatinny, Picatinny, NJ	Dec 06	Feb 07	2405		Yes		
M203 Day/Night Sight - Supplemental										ĺ
FY 2007 S	Insight Technology Londonderry, NH	SS/FFP	TACOM-Picatinny, Picatinny, NJ	Jun 07	Sep 07	6637	1	Yes		
Laser Rangefinder - Supplemental										1
FY 2007 S	TBS TBS	TBS	TACOM-Picatinny, Picatinny, NJ	Jun 07	Sep 07	3530		Yes		

REMARKS:

Exhibit P-40, Budget Iten	n Justification	Sheet					I	Date:	February 2007	
Appropriation / Budget Activity / Se Procurement of W&TCV, Army /	erial No: 2 / Weapons and other co	ombat vehicles		P-1	Item Nomencla REF Small	ature Arms (G15400)	<u>,                                    </u>			
Program Elements for Code B Items	:	Code:	Oth	er Related Program	Elements:					
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				0.6						0.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				0.6						0.6
Initial Spares										
Total Proc Cost				0.6						0.6
Flyaway U/C										
Weapon System Proc U/C										
The Rapid Equipping Force (REF) with combat commandants in Iraq archanging asymmetric threat in any ouse, but are appropriate for the current <b>Justification:</b> FY07 Base: 0 FY07 Bridge: 0 FY07	nd Afghanistan to id perational environm nt combatant operat	entify immedia nent. The REF ional command	te needs. Ne evaluates, ut ler's needs in	w equipment is deli- ilizes or adapts curre	vered to the req ently available i	uesting units. T	he REF solution	n is a rapid resp	onse to evolving,	adaptable and
FY07 Supplemental funding procure	s Asymmetrical Wa	urfare Group (A	WG) equipn	nent (scopes) for con	nbat evaluation	S.				

, I	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and			omenclature: (G15400)			Weapon System	m Type:	Date:	February 2007
WTCV		ID		FY 05			FY 06			FY 07	
Cost Element	ts	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
Robotics											
Non-Lethal Weapons		X							56	0	
Other REF Weapons											
Total:									56	0	

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 2 /		ombat vehicles			P-1	Item Nomencla MACHINE	ature E GUN, CAL .50 M2	ROLL (GB2000)			
Program Elements for Code B Items:		Code:		Other R	Related Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					2130						2130
Gross Cost					32.5						32.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					32.5						32.5
Initial Spares											
Total Proc Cost					32.5						32.5
Flyaway U/C											
Weapon System Proc U/C											
	•										1

Rollup for M2 Machine Guns. Total quantity and funding reflects G10900 (M2 Flex).

### Justification:

FY07 Supplemental procures 2,130 M2 Machine Guns which will alleviate a critical shortage of serviceable M2 Machine Guns.

(Dollars In Millions)

FY07 Baseline 0

FY07 Bridge 0
FY07 Supplemental \$32.5
FY07 Total \$32.5

Quantity 2,130

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / Seri Procurement of W&TCV, Army / 2		ombat vehicles			P-1	Item Nomencla MACHINE	ature E GUN, CAL .50 M-2	2 FLEX (G10900)			
Program Elements for Code B Items:		Code:		Other Re	elated Program	Elements:					
	Prior Years	FY 2005	FY	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					2130						2130
Gross Cost					32.5						32.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					32.5						32.5
Initial Spares											
Total Proc Cost					32.5						32.5
Flyaway U/C											
Weapon System Proc U/C											

The M2 .50 Caliber Machine Gun is automatic, belt-fed, recoil-operated, and air-cooled crew-served weapon. It mounts on the M3 tripod on most vehicles, and serves as an anti-personnel and anti-aircraft weapon. It is highly effective against light armored vehicles, low- and slow-flying aircraft, and small boats. The M2 provides automatic weapon suppressive fire for offensive and defensive purposes. It is capable of single-shot and automatic fire.

#### **Justification:**

FY 2007 Supplemental procures 2,130 M2 Machine Guns. Funding alleviates a critical shortage of serviceable M2 Machine Guns for our Soldiers who are participating in Operation Iraqi Freedom and Operation Enduring Freedom. Inventories of the weapon in the depots have been severely depleted. This request is based on deficiencies identified from on-going combat operations in Afghanistan and Iraq.

(Dollars In Millions)
FY07 Baseline 0
FY07 Bridge 0
FY07 Supplemental \$32.5
FY07 Total \$32.5

Quantity 2,130

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and				menclature: , CAL .50 M-2 FI	LEX (G10900)		Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY	Y 05			FY 06			FY 07	
Cost Elemen	ts	CD	Total C	Cost (	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	) E	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. CAL .50 Machine Gun - Supplemental		A								30892	2 2130	15
2. Engineering Support										378	8	
3. First Article Test										300	0	
4. Integrated Logistics Support (ILS)										100	0	
5. Total Package Fielding (TPF)										160	0	
6. Engineering Studies										300	0	
7. First Destination Transportation										350	0	
Total:										32480	0	

Exhibit P-5a, Budget Procurement	Histor	y and Planning							oate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other comba	t vehicles	Weapon System Type:		Nomenclature: UN, CAL .50 M-2 FLEX (G10	900)	_		_			
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
1. CAL .50 Machine Gun - Supplemental											
FY 2007 S	Gen Dyn- Burlington	Armament & Tech Prod a, VT	SS/FFP	TACOM- RI, Rock Island IL	Aug 07	Feb 08	1555	15	YES		
FY 2007 S	TBS TBS		C/FFP	TACOM-RI, Rock Island	Aug 07	Nov 08	575	15	YES		

REMARKS: The last Army production contract for the M2 Machine Gun expired in the late 1980's. Contract information above represents new Army procurement and buys of the M2 Machine Gun based on the current Army technical data package requirement. Other services also currently procure the M2 machine gun including the Marine Corps, Air Force, and Navy (not shown on this form or the P-21).

		F	<b>Y 07</b> /	08 BU	JDGE'	Γ PR(	ODU	CTIO	N SCI	HEDU!	LE				M NOME NE GUN			FLEX (C	G10900)				Date		Februar	ry 2007				
	C	OST	ELEN	1ENTS	5					]	Fiscal Y	ear 07		.1									Fiscal Y	ear 08						
		ı		1	1																ı									
M		S E	PROC QTY	ACCEP PRIOR										Calenda	ar Year 0	7								Caler	ıdar Yea	ar 08				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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	Later
1.0	CAL .50	Machin	e Gun - S	Supplemen	ıtal		•	•	•		•																			•
	FY 07 S	A	1555	0	1555											A						100	100	100	100	100	100	200	200	555
2	FY 07	A	575	0	575									+		A														575
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M								PRODI	ICTION :	RATES						Δ	DMIN L	FADT	TME		MFR		TOTA	AT.	REMA	RKS				
F							-	RODE			Reach	ed M	₹R			-	or 1 Oct		r 1 Oct		ter 1 Oct	:	After 1		1423111	1112				
R			Nan	ne - Locati	ion		1	MIN	1-8-5	MAX	D+	1	In	nitial			3		10		7		17							
1	Gen D	yn-Arm	ament &	Tech Prod	d, Burling	ton, VT		600	1200	2400			R	eorder			3		6		7		13							
2	TBS, T	ΓBS						600	1200	2400		2	In	nitial			3		10		16		26							
													R	eorder			3		6		16		22							
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										<u> </u>			_	eorder											-					
										<u> </u>			In	nitial											-					
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	<u> </u>												In	nitial																
	1									1			R	eorder		1		1												

Second   Property																															
N			F	FY 09 /	10 BU	DGET	r PR(	ODUC	CTIO	N SCI	HEDU	LE							LEX (C	G10900)				Dat	te:	Februa	ry 2007				
Note   Fig.		C	OST	ELEN	IENTS							Fiscal Y	Year 09	•										Fiscal Y	Year 10						
Parish   P	M			PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 0	9	I							Cale	ndar Ye	ar 10				-
1. Call 3. Substitute		FY			ТО	AS OF	C	O	E	A	E	Α	P	Α	U	U	U	E	C	О	E	A	E	A	P	A	U		U	E	Later
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1         Gen Dyn-Armament & Tech Prod, Burlington, VT         600         1200         2400         Reorder         3         6         7         13           2         TBS, TBS         600         1200         2400         2         Initial         3         10         16         26           Reorder         3         6         16         22           Initial         Initial         Initial         Initial           Reorder         1         Reorder         Initial												Reac	hed M	FR			Pric	or 1 Oct	After	r 1 Oct	Aft	ter 1 Oct		After 1	Oct						
2       TBS, TBS       600       1200       2400       2       Initial       3       10       16       26         Reorder       3       6       16       22         Initial       Initial       5       5       5         Reorder       10 </td <td>R</td> <td></td> <td></td> <td>Nan</td> <td>ne - Locati</td> <td>on</td> <td></td> <td>N</td> <td colspan="7"></td> <td></td> <td></td> <td>3</td> <td></td> <td>10</td> <td></td> <td>7</td> <td></td> <td>17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	R			Nan	ne - Locati	on		N										3		10		7		17							
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Exhibit P-40, Budget Ite	m Justification	Sheet							Date:	February 2007	
Appropriation / Budget Activity / S Procurement of W&TCV, Army		ombat vehicles			P-1	Item Nomencla XM320 GR	ature ENADE LAUNCHE	ER MODULE (GLM	Л) (G01501)		
Program Elements for Code B Item 0604601 - Infantry Support Wea		Code:		Other Rela	ted Program	Elements:					
	Prior Years	FY 2005	FY 2	2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					1130						1130
Gross Cost					4.2						4.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					4.2						4.2
Initial Spares											
Total Proc Cost					4.2						4.2
Flyaway U/C											
Weapon System Proc U/C											
(											

The Grenade Launcher Module (GLM) is a 40mm grenade launching weapon module that attaches underneath the barrel of the M4 Carbine and M16 Rifle. The weapon will replace M203 grenade launchers. The GLM can also be fired in a stand-alone mode. The GLM will be a production New Start in FY 2007. The GLM also incorporates an integral Day/Night sighting system and a separate laser range finder to increase accuracy.

### Justification:

FY 2007 Supplemental procures 1,130 Grenade Launcher Modules (GLM). The GLM will provide deploying units an improved capability over the current M203 grenade launcher. The GLM 40mm ammunition is loaded from the side providing easier access and a wider range of ammunition as compared to the M203 grenade launcher.

(Dollars in Millions) FY07 Baseline \$0.

FY07 Bridge \$0.

FY07 Supplemental \$4.2M

Total Quantity 1,130.

Zimior 1 e, v. cupon v. 1 e v e cost imangolo	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weap combat vehicles	ons and		P-1 Line Item N XM320 GRENA		MODULE (GLM	I) (G01501)	Weapon Syste	m Type:	Date:	February 2007
WTCV		ID		FY 05	,		FY 06			FY 07	
Cost Element	ts	CD	Total Co	ost Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. XM320 Grenade Launcher - Supplemental		В							4038	1130	3.573
2. Tool Set - Supplemental									69	56	1.232
3. Engineering Support									40	)	
4. Integrated Logistics Support									35	5	
5. Fielding									26	5	
6. New Equipment Training (NET)									26	5	
Total:									4234	1	

Exhibit P-5a, Budget Procuremen	nt History and Planning							ate: ebruary	2007	
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other com-	Weapon System Type:		Nomenclature: NADE LAUNCHER MODUL	LE (GLM) (G015	501)					
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	RFI Issu Date
. XM320 Grenade Launcher - Supplemental										
FY 2007 S	Heckler & Koch Defense, Inc. Sterling, VA	Option/FFP	TACOM-Picatinny, Picatinny, NJ	Oct 07	Mar 08	1130	4	Yes		

REMARKS:

		F	Y 07	08 BU	DGE	ΓPRO	ODUC	CTIO	N SCI	HEDU	LE			P-1 ITE XM320				MODU	ЛЕ (GL	M) (G0	1501)		Dat	e:	Februa	ry 2007				
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