

# DEPARTMENT OF THE ARMY

## Procurement Programs



Committee Staff Procurement Backup Book  
Fiscal Year (FY) 2007 Budget Estimates

### **WEAPONS AND TRACKED COMBAT VEHICLES, ARMY**

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APPROPRIATION

February 2006

## **PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY**

### **APPROPRIATION LANGUAGE**

For construction, procurement, production and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,301,943,000 to remain available for obligation until September 30, 2009.

### **PERFORMANCE METRICS**

Performance metrics used in the preparation of this Justification Book may be found in the FY07 Army Performance Budget Justification Book, dated 01 March 2006.

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BFVS SERIES (MOD)	GZ2400	9 .....	52
BRADLEY BASE SUSTAINMENT	G80718	2 .....	3
BRADLEY FVS TRAINING DEVICES (MOD)	GZ2500	3 .....	20
CARRIER, MOD	GB1930	6 .....	40
Common Remotely Operated Weapons Station (CROWS)	G04700	29 .....	195
FAASV PIP TO FLEET	GA8010	11 .....	66
FIST VEHICLE (MOD)	GZ2300	7 .....	46
HOWITZER LT WT 155MM (T)	G01700	30 .....	200
HOWITZER, LIGHT, TOWED, 105MM, M119	G01300	18 .....	130
HOWITZER, MED SP FT 155MM M109A6 (MOD)	GA0400	10 .....	60
HOWITZER, TOWED, 155MM, M198 (MODS)	GA0430	37 .....	254
IMPROVED RECOVERY VEHICLE (M88 MOD)	GA0570	12 .....	74
INDUSTRIAL PREPAREDNESS	GC0075	43 .....	282
Integrated Air Burst Weapon System Family	G16101	19 .....	137
ITEMS LESS THAN \$5.0M (TCV-WTCV)	GL3100	16 .....	124
ITEMS LESS THAN \$5.0M (WOCV-WTCV)	GL3200	41 .....	271
M1 ABRAMS TANK (MOD)	GA0700	14 .....	84
M107, CAL. 50, SNIPER RIFLE	G01500	25 .....	179
M119 MODIFICATIONS	GC0401	38 .....	256
M16 RIFLE	G14900	24 .....	171
M16 RIFLE MODS	GZ2800	39 .....	257
M2 50 Cal Machine Gun MODS	GB4000	33 .....	228
M240 Medium Machine Gun (7.62mm)	G13000	20 .....	148
M240 Medium Machine Gun MODS	GZ1300	35 .....	242
M249 SAW Machine Gun (5.56mm)	G12900	21 .....	155
M249 SAW Machine Gun MODS	GZ1290	34 .....	232
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## Alphabetic Listing - Procurement of W&TCV, Army

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MOD OF IN-SVC EQUIP, FIST VEHICLE	GZ2320	8.....	51
MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)	GC0925	40.....	265
Mortar Systems	G02200	23.....	165
PHALANX MODS	GL1000	36.....	250
PRODUCTION BASE SUPPORT (TCV-WTCV)	GA0050	17.....	127
PRODUCTION BASE SUPPORT (WOCV-WTCV)	GC0050	42.....	275
REF Small Arms	G15400	45.....	289
SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS)	G18300	28.....	194
SMALL ARMS EQUIPMENT (SOLDIER ENH PROG)	GC0076	44.....	286
SPARES AND REPAIR PARTS (WTCV)	GE0150	47.....	290
STRYKER VEHICLE	G85100	5.....	27
SYSTEM ENHANCEMENT PGM SEP M1A2	GA0730	15.....	117
XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS)	G01505	26.....	183

# Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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

P-1 Item Nomenclature  
ABRAMS TRNG DEV MOD (GA5208)

Program Elements for Code B Items:		Code:		Other 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	56.9	3.6	3.7	0.9	1.1	1.1				67.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	56.9	3.6	3.7	0.9	1.1	1.1				67.4
Initial Spares										
Total Proc Cost	56.9	3.6	3.7	0.9	1.1	1.1				67.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
Funds MODS to design hardware and software modifications to existing equipment required to keep Abrams simulators current with the Fielded Abrams Tank fleet. The training equipment supports units at U.S. Army Forces Command (FORSCOM), U.S. Army, Europe (USAREUR), U.S. Army Training and Doctrine Command (TRADOC), and Army Reserve units. These modifications are less expensive than buying new equipment.

**Justification:**  
FY2007 procures software to upgrade Abrams tank training devices to keep training device software in sync with software changes on the tank.

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006		
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature ABRAMS TRNG DEV MOD (GA5208)							
Program Elements for Code B Items:								Code:		Other Related Program Elements:			
Description		Fiscal Years											
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total		
Conduct of Fire Trnr (COFT) Conv.													
1-97-05-4526	Operational	22.3	2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	25.0		
M1A2 AGTS / Sep Modification													
1-97-05-4527	Operational	3.1	0.3	0.5	0.4	0.5	0.5	0.0	0.0	0.0	5.3		
MTS SEP Modification													
1-97-05-4530	operational	8.0	1.2	2.6	0.5	0.6	0.6	0.0	0.0	0.0	13.5		
CCTT SEP Modification													
1-97-05-4529	Operational	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7		
Prior Year Closed Modifications													
0-00-00-0000		19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3		
Institutional Trainer Upgrades													
0-00-00-0000		1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5		
Totals		56.9	3.6	3.7	0.9	1.1	1.1	0.0	0.0	0.0	67.3		



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature BRADLEY BASE SUSTAINMENT (G80718)
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Program Elements for Code B Items:	Code: L	Other 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	324	447		106	44	256	157	195		1529
Gross Cost	3413.1	1519.3	90.6	285.0	249.3	660.0	454.4	491.4		7162.9
Less PY Adv Proc	22.5									22.5
Plus CY Adv Proc	22.5									22.5
Net Proc P1	3413.1	1519.3	90.6	285.0	249.3	660.0	454.4	491.4		7162.9
Initial Spares	1634.6	4.9	2.1						550403.6	552045.1
Total Proc Cost	5047.6	1524.2	92.6	285.0	249.3	660.0	454.4	491.4	550403.6	559208.1
Flyaway U/C										
Weapon System Proc U/C	10.5	3.4		2.7	5.7	2.6	2.9	2.5		4.7

**Description:**  
The Bradley Base Sustainment Programs upgrades earlier variants of the Bradley A2 Operation Desert Storm and the A3 standards. The Bradley A3 is more lethal, survivable, sustainable and 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 remain compatible with the M1A2 Abrams SEP 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. The Bradley A3 will receive spiral technology integration from the Future Combat Systems. FY 2006 funds the annualized of the deliveries and fielding of the FY04 production contract. Due to administrative and production lead times, vehicles procured in FY04 will be fielded through FY06.

**Justification:**  
FY07 procures 16 Bradley A3 and 90 ODS vehicles in support of modularization and modernization of the Bradley fleet to meet 18/15 SEP A3/ AIM ODS fleet mixtures supporting the Army Campaign Plan for Heavy Brigade Combat Teams. The Bradley A3 will meet requirements identified for spiral technology integration from the Future Combat Systems.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (G80718)			Weapon System Type:	Date: February 2006				
<b>WTCV Cost Elements</b>	ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
	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)		115063	50	2301				156056	90	1734
BRADLEY BASE SUSTAINMENT (A3)		1214615	397	3059	90550			128910	16	8057
BFIST		189634	86	2205						
<b>Total</b>		<b>1519312</b>			<b>90550</b>			<b>284966</b>		

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

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

P-1 Item Nomenclature  
BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)

Program Elements for Code B Items:

Code:  
L

Other 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	937	50		90	37	201	114	177		1606
Gross Cost	1345.3	115.1		156.1	147.0	378.2	210.3	331.3		2683.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1345.3	115.1		156.1	147.0	378.2	210.3	331.3		2683.2
Initial Spares										
Total Proc Cost	1345.3	115.1		156.1	147.0	378.2	210.3	331.3		2683.2
Flyaway U/C										
Weapon System Proc U/C	1.4	2.3		1.7	4.0	1.9	1.8	1.9		1.7

**Description:**

The Bradley Base Sustainment Program upgrades the Bradley A2 platform into the Bradley A2 Operation Desert Storm (ODS), and funds the fielding of the various Bradley vehicles to Active and Reserve component forces. The ODS upgrade increases the lethality, survivability, and sustainability of older A2 platforms by adding a laser range finder, global positioning and inertial navigation systems, enhanced armor protection, and a spall liner.

**Justification:**

FY07 procures 90 ODS vehicles in support of modularization and modernization of the Bradley fleet to meet 18/15 SEP A3/ AIM ODS fleet mixtures supporting the Army Campaign Plan for Heavy Brigade Combat Teams. The Bradley A3 will meet requirements identified for spiral technology integration from the Future Combat Systems.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>ODS Program</b>											
ODS Vehicles			87536	50	1751				125669	90	1396
Other GFE (New)			7315	50	146				12491	90	139
Other GFE (Reman)									1250	90	14
Contractor Engineering			5278								
Government Engineering			2300								
Project Management Administration			1310								
Reimbursable Matrix Support			1290								
System Test and Evaluation			1560								
Peculiar Support Equipment									2219		
Fielding			8474						14427		
<b>ODS Program</b>			<b>115063</b>						<b>156056</b>		
<b>ODS+ Program</b>											
ODS+ Vehicles											
FLIR											
Other GFE											
Government Engineering											
Project Management Administration											
Reimbursable Matrix Support											
System Technical Support											
Test and Evaluation											
Peculiar Support Equipment											
Fielding											
<b>ODS+ Vehicles</b>											
<b>Total</b>			<b>115063</b>						<b>156056</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)							
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
<b>ODS Vehicles</b>										
FY 2005	BAE York PA	SS/FFP	TACOM	JUN-05	SEP-07	50	1751	YES		
FY 2007	BAE York PA	SS/FFP	TACOM	JUN-07	JAN-09	90	1396	YES		

REMARKS:

<b>FY 06 / 07 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06														Fiscal Year 07										Later
							Calendar Year 06														Calendar Year 07										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
ODS Vehicles																															
	1	FY 05	A	50	0	50																						50	0		
	1	FY 07	A	90	0	90																								90	
Total						140	140																						50	90	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct			After 1 Oct				
		1	Initial	Reorder	Initial			Reorder				
1	BAE, York PA	8	25	60	6	1	Initial	0	8	13	21	Vehicle contract requires vehicle deliveries be made in battalion sets.
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09												Later			
							Calendar Year 08												Calendar Year 09															
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E				
ODS Vehicles																																		
	1	FY 05	A	50	50																							0						
	1	FY 07	A	90	0	90																			1	11	13		13	15	14	10	13	0
Total																																		
				140	50	90																			1	11	13		13	15	14	10	13	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E				
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	BAE, York PA	8			25	60			
						Reorder	0	0	0	0	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

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

P-1 Item Nomenclature  
BRADLEY BASE SUSTAINMENT (M2A3) (G80717)

Program Elements for Code B Items:

Code:  
L

Other 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	595	397		16	7	55	43	18		1131
Gross Cost	2067.7	1214.6	90.6	128.9	102.3	281.8	244.1	160.2	0.0	4290.2
Less PY Adv Proc	22.5									22.5
Plus CY Adv Proc	22.5									22.5
Net Proc P1	2067.7	1214.6	90.6	128.9	102.3	281.8	244.1	160.2	0.0	4290.2
Initial Spares	1634.6	4.9	2.1						550403.6	552045.1
Total Proc Cost	3702.3	1219.5	92.6	128.9	102.3	281.8	244.1	160.2	550403.6	556335.3
Flyaway U/C										
Weapon System Proc U/C	3.5	3.1		8.1	14.6	5.1	5.7	8.9		3.8

**Description:**

The Bradley Base Sustainment Program for the M2/M3A3 upgrades 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:**

FY07 procures 16 Bradley A3 vehicles in support of modularization and modernization of the Bradley fleet to meet 18/15 SEP A3/ AIM ODS fleet mixtures supporting the Army Campaign Plan for Heavy Brigade Combat Teams. The Bradley A3 will meet requirements identified for spiral technology integration from the Future Combat Systems.



<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3) (G80717)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>HARDWARE</b>											
Vehicle			927028	397	2336				41568	16	2598
Improved Bradley Acq Subsystem (IBAS)											
Forward Looking Infrared (FLIR)			95911	397	242				4480	16	280
Other GFE New			39056	397	98				2640	16	165
Reman (Contractor)											
Other GFE Reman			5083	397	13				192	16	12
<b>Sub total</b>			<b>1067078</b>						<b>48880</b>		
<b>Other Production Cost</b>											
Engineering - Government			9516					9687	13514		
Engineering - Contractor			52659					28854	49230		
Project Management Administration			3170					2515	3833		
Reimbursable Matrix Support			3115					4718	4941		
Test			7780					3323	4003		
<b>Sub total</b>			<b>76240</b>					<b>49097</b>	<b>75521</b>		
Cummins Engine Life-of-Type Buy (FY1997)											
Peculiar Support Equipment			40974					8000	785		
Fielding			25423					33453	3724		
Assemble 10 ODS Vehicles (FY2003)											
A3 Diagnostics			4900								
<b>Sub Total</b>			<b>71297</b>					<b>41453</b>	<b>4509</b>		
<b>GROSS P-1 END COST</b>			<b>1214615</b>					<b>90550</b>	<b>128910</b>		
LESS: PRIOR YEAR ADV PROC											
<b>NET P-1 FULL FUNDING COST</b>			<b>1214615</b>					<b>90550</b>	<b>128910</b>		
PLUS: P-1 CY ADV PROC											
OTHER NON P-1 COSTS											
INITIAL SPARES			4898					2074			
MODS											
<b>TOTAL</b>			<b>4898</b>					<b>2074</b>			
<b>Total</b>			<b>1219513</b>					<b>92624</b>	<b>128910</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3) (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
<b>Vehicle</b>										
FY 2005	BAE YORK PA	SS/FFP	TACOM	JUN-05	JUN-07	397	2336	YES		
FY 2007	BAE YORK PA	SS/FF[	TACOM	JUN -07	APR-09	16	2598	YES		

REMARKS:





**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

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

P-1 Item Nomenclature  
BRADLEY FIRE SUPPORT VEHICLE (BFIST) (G80720)

Program Elements for Code B Items:

Code:

Other 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		86								86
Gross Cost		189.6								189.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		189.6								189.6
Initial Spares										
Total Proc Cost		189.6								189.6
Flyaway U/C										
Weapon System Proc U/C		2.2								2.2

**Description:**

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 by 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 unit 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 an addendas engineering change proposal (ECP) to the chassis.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: BRADLEY FIRE SUPPORT VEHICLE (BFIST) (G80720)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
A3 BFIST Vehicle Production			135430	53	2555						
M7 Vehicle Production			37801	33	1145						
<b>SUBTOTAL</b>			<b>173231</b>								
Engineering--Contractor			5200								
Government Support			1300								
Fielding			4630								
Test & Evaluation			4950								
Support Equipment			323								
<b>SUBTOTAL</b>			<b>16403</b>								
<b>Total</b>			<b>189634</b>								

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: BRADLEY FIRE SUPPORT VEHICLE (BFIST) (G80720)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>A3 BFIST Vehicle Production</b> FY 2005	BAE York PA	SS/FFP	USATACOM, Warren, MI	Jun 05	Jan 07	53	2555			
<b>M7 Vehicle Production</b> FY 2005	BAE York PA	SS/FFP	USATACOM, Warren, MI	Jun 05	Mar 07	33	1145			

REMARKS:

**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
BRADLEY FIRE SUPPORT VEHICLE (BFIST) (G80720)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06												Later
							Calendar Year 05												Calendar Year 06												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
A3 BFIST Vehicle Production																															
	1	FY 05	A	53	0	53																							53		
M7 Vehicle Production																															
	1	FY 05	A	33	0	33																							33		
Total																															
				86		86																							86		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	BAE, York PA	8			25	60			
						Reorder	0	0	0	0	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					



**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
BRADLEY FIRE SUPPORT VEHICLE (BFIST) (G80720)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												Later
							Calendar Year 07												Calendar Year 08												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
A3 BFIST Vehicle Production																															
	1	FY 05	A	53	0	53				5	7		4	8				12				17						0			
M7 Vehicle Production																															
	1	FY 05	A	33	0	33					22							11										0			
Total																															
				86		86				5	7	22	4	8				12	11		17										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	BAE, York PA	8			25	60			
						Reorder	0	0	0	0	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)
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Program Elements for Code B Items:	Code:	Other 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	79.7	22.4	5.6	4.7	4.7	4.4				121.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	79.7	22.4	5.6	4.7	4.7	4.4				121.6
Initial Spares										
Total Proc Cost	79.7	22.4	5.6	4.7	4.7	4.4				121.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program upgrades BFVS Training Devices required when the vehicle software changes. Other modifications are done to training devices to support changes to the vehicle fleet from lessons learned from Operation Iraqi Freedom (OIF). Current plans call for periodic software updates. These updates will affect the functionality of the Bradley Advanced Training System (BATS) and the M2A3 Maintenance Trainers. A degradation of training will take place if these modifications are delayed or cancelled. Without satisfactory Training Devices, additional vehicles and increased OPTEMPO funding would be required.

**Justification:**  
FY2007 procures OIF modifications to Precision Gunnery trainers and appended devices as well as software upgrades to maintain training fidelity after changes in vehicle software.

Exhibit P-40M, Budget Item Justification Sheet										Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles					P-1 Item Nomenclature BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)						
Program Elements for Code B Items:								Code:		Other Related Program Elements:	
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Close Combat Tactical Trainer											
1-01-05-0010	Operational	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0
Appended Devices											
1-99-05-4567	Operational	3.7	0.2	0.0	0.1	0.3	0.3	0.0	0.0	0.0	4.6
Bradley Advanced Training Systems											
2-02-05-0010	Operational	6.9	12.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9
Software Upgrades											
1-96-05-4513	Operational	14.2	0.0	0.4	4.6	4.4	4.1	0.0	0.0	0.0	27.7
Maintenance Trainer Mods											
1-99-05-4568	Operational	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
Prior Year Closed Modifications											
0-00-00-0000		13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6
Conduct of Fire Trainer Recap Program											
0-00-00-0000	Operational	10.1	10.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	24.5
Totals		79.7	22.4	5.6	4.7	4.7	4.4	0.0	0.0	0.0	121.5

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature ABRAMS TANK TRAINING DEVICES (GB1300)
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Program Elements for Code B Items:	Code:	Other 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	126.9	7.0	7.2	0.9	1.1	1.1			29.7	173.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	126.9	7.0	7.2	0.9	1.1	1.1			29.7	173.9
Initial Spares										
Total Proc Cost	126.9	7.0	7.2	0.9	1.1	1.1			29.7	173.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The family of Abrams Training Aids, Devices, Simulators and Simulations (TADSS) will replicate actual tank performance without incurring the much higher costs of operating the tank itself.

- Advance Gunnery Training System (AGTS) - These are precision gunnery trainers which provide realistic commander and gunner training under varying scenarios.
- Maintenance Trainers - These systems provide training in essential unit and direct support/general support tasks. There are four different trainers: Hands-on-Trainer (HOT); Hull Electrical Diagnostic/Troubleshooting (D/T) Trainer; Turret/Fire Control D/T Trainer; and Direct Support Electrical System Test Set Line Replaceable Unit (DSESTS LRU) simulators. The students will learn about the sub-systems and procedures for troubleshooting and fault isolating the tank system. The intended sites are Ft. Knox and Aberdeen Proving Ground.
- Non System Integration Kits provide system unique kits allowing the installation of non-system training devices such as the Thru Sight Video (TSV), Tank Weapon Gun Simulation System (TWGSS), Precision Range Integrated Maneuver Exercise (PRIME) and Multiple Integrated Laser Engagement System (MILES) into the tank.
- System Enhancement Program (SEP) Integration - This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.
- Abrams Integrated Management (AIM) - This funding provides for integration of AIM improvements into the various training devices impacted by those changes in the tank.
- Common Driver's Trainer & Common Gunnery Architecture - This funding provides for integration of common databases/software components into Driver's and Gunnery trainers.
- 50 Caliber Training Device.
- Intelligent Graphic Writing Traceout.

**Justification:**  
FY2007 procures software upgrades required to keep training device software in sync with the software changes on the tanks.

<b>Exhibit P-40, Budget Item Justification Sheet</b>		Date: February 2006
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles		P-1 Item Nomenclature ABRAMS TANK TRAINING DEVICES (GB1300)
Program Elements for Code B Items:	Code:	Other Related Program Elements:
<p>Note: FY2006 Congressional Add of \$2.6 Million for procurement of the 50 Caliber Training Devices and \$1.0 Million for Intelligent Graphic Writing Traceout.</p>		

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000
ADV. GNRV TRNG. SYS.		A									
a. AGTS Hardware						1357	3	452			
b. AGTS Software									399		
c. AGTS Gov't Spt.			172			630					
d. AGTS Non Recurring Cost						750					
<b>AGTS SUBTOTAL</b>			<b>172</b>			<b>2737</b>			<b>399</b>		
ABRAMS MAINTENANCE TRAINERS											
a. Hardware			2072	16	130						
b. Software											
c. Government Support			314			475					
d. Non-Recurring Cost											
<b>MTS SUBTOTAL</b>		A	<b>2386</b>			<b>475</b>					
NON SYS. INTEGR. KITS (NSI)			225	1	225	400	2	200			
a. NSI Software											
b. NSI Gov't Spt.			125								
c. NSI Non Recurring Cost											
<b>NSI SUBTOTAL</b>		A	<b>350</b>			<b>400</b>					
SOFTWARE UPGR. (SWU)											
a. Abrams Common Software Library									500		
b. SWU Gov't Spt.											
c. SWU Non Recurring Cost											
<b>SWU SUBTOTAL</b>		A							<b>500</b>		
new element											
50 CALIBER TRAINING DEVICE			3400	235	14	2550	175	15			
INTELLIGENT GRAPHIC WRITING TRACEOUT			684			1000					
<b>Total</b>			<b>6992</b>			<b>7162</b>			<b>899</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:		P-1 Line Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)						
<b>ADV. GNRV TRNG. SYS.</b> FY 2006	TBS	TBD	STRICOM	Jun 06	Apr 07	3	452	no	no	n/a
<b>ABRAMS MAINTENANCE TRAINERS</b> FY 2005	Research Triangle Ins. Charlotte, N.C.	C-FFP	STRICOM	Dec 04	Jan 06	16	130	yes	no	n/a
<b>NON SYS. INTEGR. KITS (NSI)</b> FY 2005	Anteon Corporation Fairfax, VA	FFP	STRICOM	Jun-05	Jan-06	1	225	yes	no	n/a
FY 2006	Anteon Corporation Fairfax, VA	C-FFP	STRICOM	May-06	Dec 06	2	200	no	no	n/a
<b>50 CALIBER TRAINING DEVICE</b> FY 2005	Coalescent Technologies Orlando, FL	FFP	STRICOM	Jun-05	Aug 05	235	14	yes	no	n/a
FY 2006	Coalescent Technologies Orlando, FL	FFP	STRICOM	Mar 06	May 06	175	15	yes	no	n/a

REMARKS:

<b>FY 06 / 07 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE ABRAMS TANK TRAINING DEVICES (GB1300)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06										Fiscal Year 07										Later								
							Calendar Year 06										Calendar Year 07																		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S				
a. AGTS Hardware																																			
	1	FY 06	A	3	0	3															A									3					0
ABRAMS MAINTENANCE TRAINERS																																			
	2	FY 05	A	16	0	16						8																							0
NON SYS. INTEGR. KITS (NSI)																																			
	3	FY 05	A	1	0	1																													0
	3	FY 06	A	2	0	2															A														0
50 CALIBER TRAINING DEVICE																																			
	4	FY 05	A	235	235																														0
	4	FY 06	A	175	0	175															A														0
Total																																			
				432	235	197					9																								0
																																			0

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		2	Research Triangle Ins., Charlotte, N.C.	1	1	2	0	2	3	13	
3	Anteon Corporation, Fairfax, VA	1	1	2	0	0	3	7	10		
4	Coalescent Technologies, Orlando, FL	15	30	120	0	0	3	7	10		
						4	0	2	2	4	
							0	2	2	4	



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature STRYKER VEHICLE (G85100)
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Program Elements for Code B Items: 0603653A/C03	Code: B	Other Related Program Elements:
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	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	1446	575	340	100	129	10	10	10		2620
Gross Cost	3268.7	1434.0	1049.4	796.0	804.1	289.1	390.6	327.0	938.7	9297.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	3268.7	1434.0	1049.4	796.0	804.1	289.1	390.6	327.0	938.7	9297.6
Initial Spares										
Total Proc Cost	3268.7	1434.0	1049.4	796.0	804.1	289.1	390.6	327.0	938.7	9297.6
Flyaway U/C										
Weapon System Proc U/C	2.3	2.5	3.1	8.0	6.2	28.9	39.1	32.7		3.5

**Description:**  
A dynamic asymmetric threat and operational environment demands full spectrum, strategically responsive, agile and dominant land forces. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver is essential to fulfilling the Army's Warfighting needs. The Stryker-equipped 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.

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.

<b>Exhibit P-40, Budget Item Justification Sheet</b>		Date: February 2006
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles		P-1 Item Nomenclature STRYKER VEHICLE (G85100)
Program Elements for Code B Items: 0603653A/C03	Code: B	Other Related Program Elements:
<p><b>Justification:</b>  FY07 procures Stryker vehicles for the sixth and seventh Stryker Brigade Combat Teams (BCT). An immediate need continues for Brigade Combat Teams (BCT) equipped with Stryker vehicles, capable of deployment to anywhere on the globe in a combat ready configuration. Stryker brigades are currently deployed in Operation Iraqi Freedom.</p> <p>NBC Reconnaissance Vehicle:  Live Fire Test &amp; Evaluation: 2QFY06 - 3QFY07  Production Verification Test: 1QFY06 - 1QFY07  Initial Operational Test &amp; Evaluation: 4QFY06 - 1QFY07</p> <p>Mobile Gun System:  Live Fire Test &amp; Evaluation: 2QFY06 - 2QFY07  Production Verification Test: 2QFY06 - 4QFY07  Initial Operational Test &amp; Evaluation: 2QFY07 - 3QFY07</p>		

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: STRYKER VEHICLE (G85100)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			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	445973	316	1411	219073	144	1521			
-ICV Block Improvements			6735			3069					
-Reconnaissance Vehicle (RV)		A	42642	33	1292	62496	44	1420			
-RV Block Improvements			703			938					
-Anti-Tank Guided Missile Vehicle (ATGM)		A	22174	10	2217						
-ATGM Block Improvements			213								
-Mortar Carrier (MC)		A	92906	73	1273	54922	41	1340			
-MC Block Improvements			13834			7770					
-Fire Support Vehicle (FSV)		A	17886	14	1278	12916	8	1615			
-FSV Block Improvements			298			170					
-Engineer Squad Vehicle (ESV)		A	32002	15	2133	68551	28	2448			
-ESV Block Improvements			320			597					
-Commander's Vehicle (CV)		A	40373	30	1346	91380	59	1549	49294	22	2241
-CV Block Improvements			639			1257			469		
-Medical Evacuation Vehicle (MEV)		A	22100	18	1228	24684	16	1543			
-MEV Block Improvements			384			341					
-NBC Reconnaissance Vehicle (NBCRV)		B	23804	8	2976				46273	13	3559
-NBCRV Block Improvements			170						277		
-Mobile Gun System (MGS)		B	208806	58	3600				401588	65	6178
-MGS Block Improvements			1366						1385		
Government Furnished Equipment/ASIOE			58059			35423			7919		
- Long Range Adv Scout Surveillance FS3			28451			3374					
- Long Range Adv Scout Surveillance RV			25265			18559					
- M707 Striker Mission Equipment Package			6612			1344					
Engineering Change Proposal (ECP)			7208			9903			8660		
Basic Issue Items (BII)			3457			2495			665		
- Government PVT			15497			35112			17519		
- Contractor Support to PVT			35630			14406			5972		
Comparison Evaluation											
Refurbishment of Test Vehicles			519								

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	P-1 Line Item Nomenclature: STRYKER VEHICLE (G85100)			Weapon System Type:	Date: February 2006					
WTCV Cost Elements		ID CD	FY 05			FY 06			FY 07		
			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)			38706			49549			50548		
System Fielding Support			66792			55826			32915		
Block Improvement Retrofit (Bde 1 & 2)			12281			23024			55272		
Initial Spares			11756						8331		
Training Devices			28977			42562			16335		
System Technical Support (STS)			105963			77125			39868		
Post Deployment Software Support (PDSS)						4311			9467		
Integrated Data Environment			10								
Award Fee											
Pre-Planned Product Improvements (P3I)											
Facilitization			1527								
Mounted Mortar new element											
Survivability Enhancements			13999			123002			33471		
National Maint Work Requirements (NMWR)						5250			9750		
<b>Total</b>			<b>1434037</b>			<b>1049429</b>			<b>795978</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles										
		Weapon System Type: STRYKER VEHICLE (G85100)								
<b>Stryker Vehicles</b>										
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Nov 04	Sep 05	27	1433	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Nov 04	Dec 05	8	2878	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Jan 05	Feb 06	58	3542	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Feb 05	Nov 05	423	1328	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Apr 05	Sep 06	59	1490	NA	NA	
FY 2006	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-6)	TACOM	Mar 06	Feb 07	340	1571	NA	NA	
FY 2007	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP	TACOM	Aug 07	Oct 08	100	4972	NA	NA	
<b>- Long Range Adv Scout Surveillance FS3</b>										
FY 2005	Raytheon Company McKinney, TX	C/FFP	CECOM	Apr 05	Jun 05	81	356	Yes	NA	
FY 2006	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 06	May 07	8	414	Yes	NA	
<b>- Long Range Adv Scout Surveillance RV</b>										
FY 2005	Raytheon Company McKinney, TX	C/FFP	CECOM	Apr 05	Dec 05	69	398	Yes	NA	
FY 2006	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 06	Mar 07	44	414	Yes	NA	
<b>- M707 Striker Mission Equipment Package</b>										
FY 2005	Systems & Electronics, Inc. Sanford, FL	SS/FFP	TACOM	Jun 05	May 06	28	93	Yes	NA	
FY 2006	Systems & Electronics, Inc. Sanford, FL	SS/FFP	TACOM	Apr 06	Mar 07	8	120	Yes	NA	

REMARKS: Unit cost for Stryker Vehicles is an average of all Stryker vehicle configurations procured on delivery orders issued during the respective fiscal year. Unit cost does not include Block Improvements.

LRAS - FS3: Of the quantity of 81 in FY05, 53 are required for retrofit of the FSV vehicles to the FS3 configuration.

<b>FY 06 / 07 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE STRYKER VEHICLE (G85100)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06										Fiscal Year 07										Later
							Calendar Year 06										Calendar Year 07										
							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	

Stryker Vehicles																														
	1	FY 03	A	14	0	14	2	3	4	5																			0	
	1	FY 03	A	1	0	1																							0	
	1	FY 04	A	212	154	58	11	9	14	24																			0	
	1	FY 04	A	113	103	10	5	5																					0	
	1	FY 04	A	37	20	17	9	8																					0	
	1	FY 04	A	9	0	9	2	3	4																				0	
	1	FY 04	A	39	0	39																							0	
	1	FY 05	A	27	4	23	4	4	9	4	2																		0	
	1	FY 05	A	8	0	8			1	3	4																		0	
	1	FY 05	A	58	0	58																							0	
	1	FY 05	A	423	0	423			1	1	8	38	43	42	39	40	34	39	46	38	19	14	21						0	
	1	FY 05	A	59	0	59													5	12	22	20							0	
	1	FY 06	A	340	0	340																							0	
	1	FY 06	A	340	0	340																							112	
	1	FY 07	A	100	0	100																							100	
	1	FY 08	A	140	0	140																							140	
	1	FY 09	A	10	0	10																							10	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct			After 1 Oct				
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1	56	63	0	1	Initial	6	6	11	17	New contract beginning with FY07 vehicle procurement. MS III for MGS and NBCRV scheduled for July 07.
							Reorder	0	6	11	17	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE  
STRYKER VEHICLE (G85100)

Date:  
February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06													Fiscal Year 07												Later				
							Calendar Year 06													Calendar Year 07																
							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						
	1	FY 10	A	10	0	10																														
	1	FY 11	A	10	0	10																														
Total				1610	281	1329	33	33	33	44	49	49	49	49	50	44	49	51	50	48	40	48	29	29	29	29	29	25	29	29	29	29	382			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1	56	63	0	1	6	6	11	17	New contract beginning with FY07 vehicle procurement. MS III for MGS and NBCRV scheduled for July 07.
							0	6	11	17	

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
STRYKER VEHICLE (G85100)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08													Fiscal Year 09													Later
							Calendar Year 08													Calendar Year 09													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E			
Stryker Vehicles																																	
	1	FY 03	A	14	14																											0	
	1	FY 03	A	1	1																											0	
	1	FY 04	A	212	212																											0	
	1	FY 04	A	113	113																											0	
	1	FY 04	A	37	37																											0	
	1	FY 04	A	9	9																											0	
	1	FY 04	A	39	39																											0	
	1	FY 05	A	27	27																											0	
	1	FY 05	A	8	8																											0	
	1	FY 05	A	58	58																											0	
	1	FY 05	A	423	423																											0	
	1	FY 05	A	59	59																											0	
	1	FY 06	A	340	228	112	29	29	25	29																						0	
	1	FY 07	A	100	0	100											15	15	15	15	15	15	14	11								0	
	1	FY 08	A	140	0	140								A														19	19	19	18	19	46
	1	FY 09	A	10	0	10																A										10	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E			
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1	56	63	0	Initial	6	6	11	17	Breaks in production result in additional 90 days PLT on follow-on production. FY08 includes QTY of 11 RDTE funded vehicles to support Evaluation Force.
						Reorder	0	6	11	17	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					





**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
STRYKER VEHICLE (G85100)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10														Fiscal Year 11														Later
							Calendar Year 10														Calendar Year 11														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					
Stryker Vehicles																																			
	1	FY 03	A	14	14																									0					
	1	FY 03	A	1	1																									0					
	1	FY 04	A	212	212																									0					
	1	FY 04	A	113	113																									0					
	1	FY 04	A	37	37																									0					
	1	FY 04	A	9	9																									0					
	1	FY 04	A	39	39																									0					
	1	FY 05	A	27	27																									0					
	1	FY 05	A	8	8																									0					
	1	FY 05	A	58	58																									0					
	1	FY 05	A	423	423																									0					
	1	FY 05	A	59	59																									0					
	1	FY 06	A	340	340																									0					
	1	FY 07	A	100	100																									0					
	1	FY 08	A	140	94	46	19	9	9																					0					
	1	FY 09	A	10	0	10																								0					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	1			Initial	After 1 Oct			
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1	56	63	0	1	Initial	6	6	11	17	REMARKS FY08 ncludes Qty of 11 RDTE funded vehicles to support Evaluation Force. Breaks in production result in additional 90 days PLT on follow-on production.
							Reorder	0	6	11	17	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



**FY 12 / 13 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
STRYKER VEHICLE (G85100)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 12														Fiscal Year 13										Later
							Calendar Year 12														Calendar Year 13										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Stryker Vehicles																															
	1	FY 03	A	14	14																								0		
	1	FY 03	A	1	1																								0		
	1	FY 04	A	212	212																								0		
	1	FY 04	A	113	113																								0		
	1	FY 04	A	37	37																								0		
	1	FY 04	A	9	9																								0		
	1	FY 04	A	39	39																								0		
	1	FY 05	A	27	27																								0		
	1	FY 05	A	8	8																								0		
	1	FY 05	A	58	58																								0		
	1	FY 05	A	423	423																								0		
	1	FY 05	A	59	59																								0		
	1	FY 06	A	340	340																								0		
	1	FY 07	A	100	100																								0		
	1	FY 08	A	140	140																								0		
	1	FY 09	A	10	10																								0		

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct			After 1 Oct				
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1	56	63	0	1	Initial	6	6	11	17	Breaks in production result in additional 90 days PLT on follow-on production.
							Reorder	0	6	11	17	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 12 / 13 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
STRYKER VEHICLE (G85100)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 12											Fiscal Year 13											Later										
							Calendar Year 12											Calendar Year 13																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P								
	1	FY 10	A	10	10																																		0
	1	FY 11	A	10	0	10								3	3	4																						0	
				1610	1600	10								3	3	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 N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS Breaks in production result in additional 90 days PLT on follow-on production.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1	56	63	0	1	Initial	6	6	11	17
							Reorder	0	6	11	17
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature CARRIER, MOD (GB1930)
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Program Elements for Code B Items:	Code:	Other 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	1060.2	219.8	62.0	23.0	80.0	110.4	104.4	88.9		1748.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1060.2	219.8	62.0	23.0	80.0	110.4	104.4	88.9		1748.6
Initial Spares										
Total Proc Cost	1060.2	219.8	62.0	23.0	80.0	110.4	104.4	88.9		1748.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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, survivability and to install operational enhancements. Enhancements to the M113 FOV also improves the reliability, sustainability, chemical protection, driver's night vision, fuel system, and Command Post Auxiliary Power Units. Also included in this program is the T150 Track providing approximately four times the track life of the T130 track reducing operations and support costs.

**Justification:**  
FY2007 procures vehicle conversions from the A2 variant to the latest A3 configuration.

FY2005 Program of \$10.5 million is a Congressional Plus Up and supplemental budget of \$209.3 million  
FY2006 Funding includes \$62 million in the Bridge supplemental for Add-on-Armor Program.

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006		
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature CARRIER, MOD (GB1930)							
Program Elements for Code B Items:								Code:		Other Related Program Elements:			
Description		Fiscal Years											
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total		
Prior Year Closed Modifications													
0-00-00-0000		398.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	398.7		
A3 Conversions													
1-84-05-4026	Oper Capability	629.9	155.5	0.0	23.0	80.0	110.4	104.4	88.9	0.0	1192.1		
T-150 TRACK													
0-00-00-0000	Oper Capability	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6		
Add-on Armor Upgrade (AOA)													
0-00-00-0000		20.0	64.3	62.0	0.0	0.0	0.0	0.0	0.0	0.0	146.3		
Totals		1060.2	219.8	62.0	23.0	80.0	110.4	104.4	88.9	0.0	1748.7		

**INDIVIDUAL MODIFICATION**

Date: February 2006

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            May 86  
 TDP Available                        June 86

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	2338	26		22	33	48	93	84	72	77	30			30	9					42	42	44
Outputs	2338	26		22	33	48	93	84	72	77	30			30	9					42	42	44

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	44	60	60	60	57	54	54	54	54	44	44	44	45					3664
Outputs	44	60	60	60	57	54	54	54	54	44	44	44	45					3664

METHOD OF IMPLEMENTATION: Depot/Contractor    ADMINISTRATIVE LEADTIME: 4 months    PRODUCTION LEADTIME: 12 months  
 Contract Dates:                        FY 2006 -                                        FY 2007 -                                        FY 2008 -  
 Delivery Dates:                        FY 2006 -                                        FY 2007 -                                        FY 2008 -



**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
A3 Upgrades	3529	443.0	356	90.0			39	9.8	172	44.1	237	61.7	216	58.1	177	48.9			4726	755.6	
M577A3 conversion to M1068A3	77	5.6	37	1.0															114	6.6	
Equipment	0	3.5		49.4				5.5	24.1		34.6		32.7		27.4					177.2	
Data	0	42.4																		42.4	
PM Support (Govt)	0	10.9		1.2				1.5	1.5		1.5		1.5		1.5					19.6	
System Technical Support (Ctr)	0	12.3		5.0				5.0	5.0		5.0		5.0		5.0					42.3	
Other	0	1.4																		1.4	
Pre Conversion/Modification	0	47.5		7.4				1.0	4.3		6.2		5.8		5.0					77.2	
FDT	0	2.8		0.0																2.8	
TPF/BII	0	7.6		1.5				0.2	1.0		1.4		1.3		1.1					14.1	
<b>Installation of Hardware</b>	0																				
FY2002 & Prior Equip -- Kits																					
FY2003 Equip -- Kits	2338	51.4																		2338	51.4
FY2004 Equip -- Kits		1.5	81		11															92	1.5
FY2005 Equip -- Kits					286		107													393	
FY2006 Equip -- Kits																					
FY2007 Equip -- Kits	0								39											39	
FY2008 Equip -- Kits	0										128		44							172	
FY2009 Equip -- Kits	0												180		57					237	
TC Equip- Kits	0														162			231		393	
Total Installment	2338	52.9	81	0.0	297	0.0	107	0.0	39	0.0	128	0.0	224	0.0	219	0.0	231	0.0	3664	52.9	
Total Procurement Cost		629.9		155.5		0.0		23.0		80.0		110.4		104.4		88.9		0.0		1192.1	

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Add-on Armor Upgrade (AOA) [MOD 4] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M113A3, M577A3, M1068A3, M1064A3

**DESCRIPTION / JUSTIFICATION:**

The M113 Add on Armor (AOA) program is a rapid procurement initiative to meet a Coalition Forces Land Component Command (CFLCC) Operations Needs Statement (ONS) for 734 M113 FOV armor suites. The AOA suite consists of high hard steel providing 360 degree vehicle protection, bar armor application to defeat Rocket Propelled Grenades (RPGs), Transparent Armor Gun Shield (TAGS) and cupola protection, and an underbelly mine armor kit providing mine protection. In July 2005, a second ONS was approved for an additional 453 vehicles to receive AOA and 543 vehicles from ONS1 to receive an underbelly armor retrofit kit. To date a contract has been awarded for 320 of these AOA kits. The first ONS (734) is fully funded in FY05 and full funding for the second ONS is requested in FY06.

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

First ONS Approval - December 2004; Second ONS Approval - July 2005  
Design complete - February 2004

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>Totals</b>			399	335		320	676													
<b>Inputs</b>			399	335		320	676													
<b>Outputs</b>			399	335		320	676													

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
<b>Inputs</b>																				1730
<b>Outputs</b>																				1730

**METHOD OF IMPLEMENTATION:** Contract ADMINISTRATIVE LEADTIME: 8 months PRODUCTION LEADTIME: 3 months  
 Contract Dates: FY 2006 - Jan 05 FY 2007 - Aug 05 FY 2008 -  
 Delivery Dates: FY 2006 - Aug 05 FY 2007 - Feb 06 FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Add-on Armor Upgrade (AOA) [MOD 4] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	<b>RDT&amp;E</b>																					
<b>Procurement</b>																						
Kit Quantity, Armor Suite		20.0	734	64.3	453	45.0														1187	129.3	
Retrofit Underbelly Armor Kits					543	17.0														543	17.0	
Installation Kits, Nonrecurring Equipment																						
Equipment, Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support																						
<b>Installation of Hardware</b>																						
FY 2004 & Prior Equip -- Kits																						
FY 2005 -- Kits			734																		734	
FY 2006 Equip -- Kits					996																996	
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	734	0.0	996	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1730	0.0
Total Procurement Cost		20.0		64.3		62.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		146.3

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature FIST VEHICLE (MOD) (GZ2300)
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Program Elements for Code B Items: 0203735A	Code: B	Other 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				15		14	17	21	64	131
Gross Cost	485.4	0.0		32.0		33.7	66.0	82.7		699.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	485.4	0.0		32.0		33.7	66.0	82.7		699.9
Initial Spares										
Total Proc Cost	485.4	0.0		32.0		33.7	66.0	82.7		699.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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 procures 15 each M7 BFIST vehicles.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			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. M7 Vehicle Production								22655	15	1510	
<b>SUBTOTAL</b>								<b>22655</b>			
2. Engineering Production								2991			
3. Government Support								1576			
4. Fielding				1				3332			
5. Test & Evaluation								1474			
6. Support Equipment											
<b>SUBTOTAL</b>				<b>1</b>				<b>9373</b>			
<b>Total</b>				<b>1</b>				<b>32028</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: FIST VEHICLE (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 \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. M7 Vehicle Production</b> FY 2007	BAE York PA	SS/FFP	USATACOM, Warren, Mi	Mar 07	Mar 09	15	1510			

REMARKS:

**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
FIST VEHICLE (MOD) (GZ2300)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07														Fiscal Year 08											Later
							Calendar Year 07														Calendar Year 08											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E		
M7 Vehicle Production																																
	1	FY 07	A	15	0	15																						15				
Total				15		15																						15				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	BAE, York PA	8			25	60			
						Reorder	0	0	0	0	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>FY 09 / 10 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FIST VEHICLE (MOD) (GZ2300)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09										Fiscal Year 10										Later				
							Calendar Year 09										Calendar Year 10														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E

M7 Vehicle Production																															
	1	FY 07	A	15	0	15								3	3	3	3	3											0		
Total				15		15								3	3	3	3	3													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	C

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	1			Initial	After 1 Oct			
1	BAE, York PA	8	25	60	0	1	Initial	0	6	24	30	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature MOD OF IN-SVC EQUIP, FIST VEHICLE (GZ2320)
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Program Elements for Code B Items:	Code:	Other 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	3.5	0.7								4.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	3.5	0.7								4.2
Initial Spares										
Total Proc Cost	3.5	0.7								4.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The Bradley Fire Support Vehicle (BFIST) Mod-In-Service line provides funding for life cycle software support to include evolutionary hardware changes for the BFIST program. These hardware changes include those due to the replacement of obsolete Lightweight Computer Units (LCUs).

**Justification:**  
FY 2007 has no procurement budget

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature BFVS SERIES (MOD) (GZ2400)
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Program Elements for Code B Items:	Code: L	Other 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	1212.6	184.8	66.4	70.0	37.7	127.4	41.0	27.2	122.8	1889.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1212.6	184.8	66.4	70.0	37.7	127.4	41.0	27.2	122.8	1889.9
Initial Spares										
Total Proc Cost	1212.6	184.8	66.4	70.0	37.7	127.4	41.0	27.2	122.8	1889.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program procures and supports application of modification kits for the family of Bradley Fighting Vehicle Systems (BFVS). The modifications include the addition of a Laser Range Finder, Position Navigation System and Equipment Restow Improvement. Operational improvements are the Vehicle Intercommunications System (VIS), the Digital Electronic Control Assembly (DECA) and the capability to apply Bradley Reactive Armor Tiles (BRAT). The High Priority Improvement Modification reflect evolutionary improvements to the BFVS vehicle which include: Blue Force Tracking (BFT), Solid State Hard Drives (SSHD), Chassis Modification Embedded Diagnostics (CMED) and improved vehicle core electronics.

**Justification:**  
FY2007 procures High Priority Improvements and Blue Force Tracking (BFT) modifications. These modifications will continue to meet requirements identified to correct deficiencies, reduce operation and support costs and to maintain the lethality, survivability, mobility and situational awareness of the BFVS in order to maintain combat overmatch. Reduced BFVS capability and survivability will occur if these modifications are delayed or reduced.

FY2005 funding includes a Congressional plus up of \$17.2 million for BRAT sets and supplemental budget of \$112.2 million for BRAT sets and BFT Kits.

FY2006 funding includes \$22 million in the Bridge Supplemental for the procurement of BRAT sets.

<b>Exhibit P-40M, Budget Item Justification Sheet</b>											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature BFVS SERIES (MOD) (GZ2400)						
Program Elements for Code B Items:								Code: L		Other Related Program Elements:		
Description			Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total	
A2 ODS Vehicle for Combat Engineers (ODS-E)												
1-98-05-4539	Operational	54.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.8	
Bradley Reactive Armor Tiles (BRAT)												
1-84-05-4038	Operational	163.4	112.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	297.4	
BFVS High Priority Improvements												
1-98-05-4550	Operational	254.8	41.1	39.8	52.1	28.7	127.4	41.0	27.2	122.8	734.9	
Prior Year Closed Mods												
0-00-00-0000		727.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	727.8	
Blue Force Tracking												
2-04-05-0004	Operational	12.1	26.4	4.6	17.9	9.0	0.0	0.0	0.0	0.0	70.0	
Totals		1212.6	184.8	66.4	70.0	37.7	127.4	41.0	27.2	122.8	1889.9	

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Bradley Reactive Armor Tiles (BRAT) [MOD 2] 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

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	552	105	105	105	105	15	14	14	14												
Outputs	552	105	105	105	105	15	14	14	14												

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1029
Outputs																		1029

METHOD OF IMPLEMENTATION: Troop Installed      ADMINISTRATIVE LEADTIME: 6 months      PRODUCTION 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 2008 - N/A

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Bradley Reactive Armor Tiles (BRAT) [MOD 2] 1-84-05-4038

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	652	163.4	320	96.0	57	19.0													1029	278.4		
Installation Kits			730	9.8	151	2.4													881	12.2		
Installation Kits, Nonrecurring	0																					
Facilitization	0			5.6																	5.6	
Equipment, Nonrecurring	0																					
Engineering Change Orders	0																					
Data	0																					
Training Equipment	0																					
Support Equipment	0																					
Other	0			0.6		0.6															1.2	
Interim Contractor Support	0																					
<b>Installation of Hardware</b>	0																					
FY2002 & Prior Equip -- Kits	512																				512	
FY2003 Equip -- Kits	40		40																		80	
FY2004 Equip -- Kits	0		60																		60	
FY2005 Equip -- Kits	0		320																		320	
FY2006 Equip -- Kits	0				57																57	
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	552	0.0	420	0.0	57	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1029	0.0
Total Procurement Cost		163.4		112.0		22.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		297.4

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: BFVS High Priority Improvements [MOD 3] 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 Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	857	542	42	43	43	217	217	216	216	522	522	522	521	73	73	73	73	29	29	29	28
Outputs	857	542	42	43	43	217	217	216	216	522	522	522	521	73	73	73	73	29	29	29	28

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	141	141	141	141	38	38	38	38	25	25	25	25	115	115	114	114		6161
Outputs	141	141	141	141	38	38	38	38	25	25	25	25	115	115	114	114		6161

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

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): BFVS High Priority Improvements [MOD 3] 1-98-05-4550

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RDT&amp;E</b>	0																			
<b>Procurement</b>	0																			
CMED Driver Vision Upgrade	225	27.9	180	31.3	212	23.6	292	47.0	115	26.4	564	127.0	152	38.9	100	26.6	458	120.6	2298	469.3
Reset Mods			150	3.3	606	4.1	551	3.8	174	1.3									1481	12.5
INU/Talon					271	4.5													271	4.5
Heat Abatement			294	0.4	1470	2.0													1764	2.4
Cargo Hatch					1000	0.4													1000	0.4
Other High Priority Mods	1357	226.9		6.1		3.2													1357	236.2
<b>Installation of Hardware</b>																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits	500				0	0.0														500
FY2004 Equip -- Kits	357		500		0	0.0														857
FY2005 Equip -- Kits	0		170				0	0.0												170
FY2006 Equip -- Kits	0				866	2.0	2087	1.3												2953
FY2007 Equip -- Kits	0								292	1.0										292
FY2008 Equip -- Kits	0										115	0.4								115
FY2009 Equip -- Kits	0												564	2.1						564
FY2010 Equip-- Kits	0														152	0.6				152
2011 Equip -- kits	0																100	0.4	100	0.4
TOC Equip -- kits																	458	1.8	458	1.8
Total Installment	857	0.0	670	0.0	866	2.0	2087	1.3	292	1.0	115	0.4	564	2.1	152	0.6	558	2.2	6161	9.6
Total Procurement Cost		254.8		41.1		39.8		52.1		28.7		127.4		41.0		27.2		122.8		734.9

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Blue Force Tracking [MOD 5] 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

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	408	228	227	227	227	25	25	25	25	130	130	129	129	54	54	54	54				
Outputs	408	228	227	227	227	25	25	25	25	130	130	129	129	54	54	54	54				

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		2151
Outputs																		2151

**METHOD OF IMPLEMENTATION:** Contractor      **ADMINISTRATIVE LEADTIME:** 6 months      **PRODUCTION LEADTIME:** 12 months

Installation

Contract Dates:                      FY 2006 - Apr 06    FY 2007 - Apr 07    FY 2008 -

Delivery Dates:                      FY 2006 - Apr 07    FY 2007 - Apr 08    FY 2008 -



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Blue Force Tracking [MOD 5] 2-04-05-0004

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<b>RDT&amp;E</b>																				
<b>Procurement</b>																					
Kit Quantity	408	8.6	909	21.0	100	4.0	518	13.2	216	6.5									2151	53.3	
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>																					
FY 2004 & Prior Equip -- Kits	408	3.5																	408	3.5	
FY 2005 -- Kits			909	5.4															909	5.4	
FY 2006 Equip -- Kits					100	0.6													100	0.6	
FY 2007 Equip -- Kits							518	4.7											518	4.7	
FY 2008 Equip -- Kits									216	2.5									216	2.5	
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
FY 2011 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	408	3.5	909	5.4	100	0.6	518	4.7	216	2.5	0	0.0	0	0.0	0	0.0	0	0.0	2151	16.7	
Total Procurement Cost		12.1		26.4		4.6		17.9		9.0		0.0		0.0		0.0		0.0		70.0	

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)
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Program Elements for Code B Items:	Code:	Other 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	1526.3	18.9	14.6	28.7	33.6	44.1	26.7	17.3	43.8	1753.9
Less PY Adv Proc	16.3									16.3
Plus CY Adv Proc	16.3									16.3
Net Proc P1	1526.3	18.9	14.6	28.7	33.6	44.1	26.7	17.3	43.8	1753.9
Initial Spares										
Total Proc Cost	1526.3	18.9	14.6	28.7	33.6	44.1	26.7	17.3	43.8	1753.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This Howitzer Improvement Program 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 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 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 procures the following Howitzer Improvement Program 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).

<b>Exhibit P-40M, Budget Item Justification Sheet</b>											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)						
Program Elements for Code B Items:								Code:		Other Related Program Elements:		
Description			Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total	
Howitzer Improvement Program - PDFCS												
1-81-05-1002	Unclassified	1522.8	18.9	13.1	18.0	27.7	35.4	26.7	17.3	43.8	1723.7	
Chlorofluorocarbon (CFC Elimination)												
1-96-05-1003	Unclassified	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	
Howitzer Improvement Program - MACS Storage Racks												
1-81-05-1002	Unclassified	0.0	0.0	1.5	10.7	5.9	8.7	0.0	0.0	0.0	26.8	
Totals		1526.3	18.9	14.6	28.7	33.6	44.1	26.7	17.3	43.8	1754.0	

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 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**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	174	0	0	0	0	0	0	22	22	0	23	23	22	24	24	23	23	48	48	47	47
Outputs	18	17	36	23	58	12	0	17	51	0	22	22	24	18	36	36	36	18	36	36	36

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	54	54	53	53	41	41	41	40	27	0	0	0						974
Outputs	18	36	36	36	18	36	36	36	18	38	36	16						912

**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 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	975																			975		
Equipment	0	834.2		6.9		11.5		15.0		23.8		31.3		22.0		13.0					957.7	
Equipment, Nonrecurring	0	245.6																			245.6	
Engineering Change Orders	0	116.6																			116.6	
Matrix Personnel Support	0	104.2		3.2		0.8		0.5		0.5		0.5		0.8		0.8					111.3	
Data/Other	0	19.6		0.7		0.4		0.4		0.4		0.4		0.7		0.7					23.3	
Training Equipment	0	14.1																			14.1	
Vehicular Intercom System	0	11.3																			11.3	
Project Mgmt Admin	0	31.0		2.5		0.1		1.6		2.2		2.0		2.0		1.8					43.2	
Fielding	0	41.6		1.6		0.3		0.5		0.8		1.2		1.2		1.0					48.2	
System Improvements	0	22.1		4.0		0.0		0.0		0.0		0.0						43.8			69.9	
<b>Installation of Hardware</b>	0																					
FY2002 & Prior Equip -- Kits	975	82.5																			975	82.5
FY2003 Equip -- Kits	0																					
FY2004 Equip -- Kits	0																					
FY2005 Equip -- Kits	0																					
FY2006 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
TC Equip- Kits	0																					
<b>Total Installment</b>	975	82.5	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	975	82.5
<b>Total Procurement Cost</b>		1522.8		18.9		13.1		18.0		27.7		35.4		26.7		17.3		43.8				1723.7

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Howitzer Improvement Program - MACS Storage Racks [MOD 3] 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.

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	459	0	0	30	30	10	10	10	0	35	35	40	40	19	19	19	18	35	35	34	34
Outputs	45	36	42	36	88	30	54	86	36	36	36	36	36	36	36	36	36	36	36	36	36
		FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																					912
Outputs	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 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Howitzer Improvement Program - MACS Storage Racks [MOD 3] 1-81-05-1002

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<b>RDT&amp;E</b>																				
<b>Procurement</b>																					
Kit Quantity																					
Equipment						0.0		0.0		0.0		0.0		0.0		0.0					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Matrix Personnel Support						0.3		0.2		0.2		0.2		0.0		0.0					0.9
Data						0.3		0.3		0.3		0.3		0.0		0.0					1.2
Training Equipment																					
Veicular Intercom System																					
Project Mgmt Admin						0.1		0.9		0.5		0.7		0.0		0.0					2.2
Fielding						0.3		2.7		1.3		2.4		0.0		0.0					6.7
System Improvements						0.5		6.6		3.6		5.1		0.0		0.0					15.8
<b>Installation of Hardware</b>																					
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	0.0
Total Procurement Cost		0.0		0.0		1.5		10.7		5.9		8.7		0.0		0.0					26.8

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature FAASV PIP TO FLEET (GA8010)
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Program Elements for Code B Items:		Code: A		Other 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	124.4	6.8	6.4							137.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	124.4	6.8	6.4							137.6
Initial Spares										
Total Proc Cost	124.4	6.8	6.4							137.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program provides for the procurement of the Field Artillery Ammunition Support Vehicle (FAASV) Materiel Change and FAASV Engine Compartment Halon Replacement modifications. FY2006 procures the following FAASV system improvements necessary for the vehicle to operate and interface with other systems on the battlefield: Auxiliary Power Unit (APU); Modular Artillery Charge System (MACS) Stowage and Handling; and replace Halon, which is the fire suppression agent for the FAASV Engine Compartment with an environmentally safe alternative.

**Justification:**  
No funds are budgeted for FY07.



<b>Exhibit P-40M, Budget Item Justification Sheet</b>											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature FAASV PIP TO FLEET (GA8010)						
Program Elements for Code B Items:								Code: A		Other Related Program Elements:		
Description			Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total	
FAASV Materiel Change												
1-93-05-4457	Unclassified	120.2	6.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	132.2	
FAASV Engine Compartment Halon Replacement												
1-94-05-4477	Unclassified	4.2	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	5.4	
New Mod												
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		124.4	6.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	137.6	

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: FAASV Materiel Change [MOD 1] 1-93-05-4457

MODELS OF SYSTEM AFFECTED: M992A2

**DESCRIPTION / JUSTIFICATION:**

The FAASV material change encompasses improvements to include an Up-powered Auxiliary Power Unit (APU) to support Paladin silent watch and Modular Artillery Charge System (MACS) stowage improvements. The total fleet quantity of M992A2s is 923 due to 4 combat losses in OIF. FY03-FY06 funding is for system improvements necessary for the vehicle to operate and interface with other systems.

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

Material Changes being applied to FAASV RECAP/RESET in FY04.  
Material Changes being applied to fielded vehicles beginning in FY05.

**Installation Schedule**

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

Pr Yr	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		0

METHOD OF IMPLEMENTATION: Depot/Retrofit Team ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 8 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): FAASV Materiel Change [MOD 1] 1-93-05-4457

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	789																			789		
Installation Kits	0	43.6																			43.6	
Engineering	0	11.6		0.7		0.1															12.4	
Government Support	0	5.2		0.8		0.5															6.5	
Testing	0	0.5																			0.5	
Fielding Support	0	6.2																			6.2	
Depot Maint Pre Modification	0	0.8																			0.8	
System Improvements:	0	13.2																			13.2	
APU Kits	250	5.0		4.9		5.0														250	14.9	
MACS Kits	328	5.3																		328	5.3	
<b>Installation of Hardware</b>	0																					
FY2002 & Prior Equip -- Kits	789	25.6																		789	25.6	
FY2003 Equip -- Kits	0																					
FY2004 Equip -- Kits		3.2																			3.2	
FY2005 Equip -- Kits	0																					
FY2006 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	789	28.8	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	789	28.8
Total Procurement Cost		120.2		6.4		5.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		132.2

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: FAASV Engine Compartment Halon Replacement [MOD 2] 1-94-05-4477

MODELS OF SYSTEM AFFECTED: FAASV M992A2

DESCRIPTION / JUSTIFICATION:

References: DOD Directive 6050.0;DA Policy Letter 200.0.1;AMC Regulation 70-68;Montreal Protocol of 1986 and Presidential Directive.

The FY03-05 funds have been appropriated to identify and swap out an alternative agent for the Engine Compartment Automatic Fire Extinguishing System (AFES). The total fleet quantity of M992A2s is 923 due to 4 combat losses in OIF.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Material Changes being applied to FAASV RECAP/RESET in FY04.  
Material Changes being applied to fielded vehicles beginning in FY05.

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	
Inputs																						
Outputs																						

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						0
Outputs																						0

METHOD OF IMPLEMENTATION: Depot/Retrofit Team ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 8 months

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

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

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): FAASV Engine Compartment Halon Replacement [MOD 2] 1-94-05-4477

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	927																			927	
Installation Kits A	0	1.0																			1.0
Engineering Support	0	0.1																			0.1
Test	0	0.3																			0.3
Installation Kits B	826	1.4	0.4		0.8															826	2.6
Crew Compartment Non-Recurring	0																				
--	0																				
--	0																				
--	0																				
--	0																				
--	0																				
<b>Installation of Hardware</b>	0																				
FY2002 & Prior Equip -- Kits	927	1.4																		927	1.4
FY2003 Equip -- Kits	0																				
FY2004 Equip -- Kits	0																				
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
TC Equip- Kits	0																				
<b>Total Installment</b>	927	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	927	1.4	
<b>Total Procurement Cost</b>		4.2		0.4		0.8		0.0		0.0		0.0		0.0		0.0		0.0			5.4

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: New Mod [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): New Mod [MOD 3] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
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		0.0		0.0		0.0		0.0		0.0		0.0		0.0

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)
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Program Elements for Code B Items:		Code: A	Other 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	157	53		12	12	33	38	60		365
Gross Cost	447.7	142.5		36.5	36.9	107.4	123.1	192.4		1086.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	447.7	142.5		36.5	36.9	107.4	123.1	192.4		1086.6
Initial Spares	134.8								224697.5	224832.4
Total Proc Cost	582.6	142.5		36.5	36.9	107.4	123.1	192.4	224697.5	225918.9
Flyaway U/C										
Weapon System Proc U/C	2.9	2.7		3.0	3.1	3.3	3.2	3.2		3.0

**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 capable of performing recovery, evacuation and limited repair of the main battle tank.

**Justification:**  
FY07 procures a total of 12 M88A2 HERCULES utilizing the existing M88A1 chassis as the base vehicle and 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. Fullfills the Heavy Brigade Combat Team (HBCT) Army's Campaign Plan modularity objectives with a two fleet Abrams variant (AIM and SEP tanks). 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 accommodate all Abrams variance and other 70-ton M1A2 SEP. Without the improvements incorporated in the M88A2 HERCULES, units must use two recovery vehicles (or another Abrams to tow a disabled tank) to perform the spectrum of recovery missions.



<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)			Weapon System Type:		Date: February 2006		
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Vehicle Manufacturing - Contractor			96081	53	1813				25608	12	2134
Vehicle Manufacturing - GFE			5263						3697		
Engine Re-Power			17621								
Contractor Engineering			6381						2395		
Engineering Change Orders			2932						547		
Project Management - Core			3750						1200		
Project Management - OGA			1626						1100		
Transportation			350						120		
Fielding (TPF & NET)			1590						265		
Testing (incl analysis & development)			970						200		
Depot Maintenance - Premodification			5892						1362		
<b>Total</b>			<b>142456</b>						<b>36494</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:		P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Vehicle Manufacturing - Contractor</b>										
FY 2005	BAE Systems York, PA	SS-FFP 5/5	TACOM	Jun 05	Sep 06	53	1813	YES		Mar 05
FY 2007	BAE Systems York, PA	SS-FFP 1/5	TACOM	Dec 06	Feb 08	12	2134	YES		Oct 06

REMARKS: The Sole Source Firm Fixed Price (SS-FFP) contract is in accordance with the Class Justification & Approval (J&A) that was approved by Assistant Secretary of the Army for Acquisition, Logistics & Technology (ASAALT) on 30 Sep 00 under the Federal Acquisition Regulation (FAR) 6.302-1 (one responsible source). A new Class Justification & Approval (J&A) is currently at the Assistant Secretary of the Army for Acquisition, Logistics & Technology (ASAALT) for approval due to quantity and dollar requirements.

FY 05 / 06 BUDGET PRODUCTION SCHEDULE							P-1 ITEM NOMENCLATURE IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)													Date: February 2006													
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05															Fiscal Year 06										Later	
							Calendar Year 05															Calendar Year 06											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E			
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P										
Vehicle Manufacturing - Contractor																																	
	1	FY 05	A	53	0	53																							4	49			
	1	FY 07	A	12	0	12																								12			
	1	FY 05	MC	6	0	6																						2	2	2			
Total																													2	6	63		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E			
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			
M F R	PRODUCTION RATES					Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																				
	MIN	1-8-5	MAX	Prior 1 Oct	After 1 Oct																												
1	BAE Systems, York, PA					2	1	Initial	0	9	15	21	No production breaks will occur due to USMC planned production. The USMC production was accelerated to meet mission requirements. The USMC production is provided IAW FMR page 4-53 paragraph 3.e.  Production rates are monthly production rates.																				
							Reorder	0	3	14	17																						
							Initial																										
							Reorder																										
							Initial																										
							Reorder																										
							Initial																										
							Reorder																										

<b>FY 07 / 08 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07										Fiscal Year 08										Later												
							Calendar Year 07										Calendar Year 08																						
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S								
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P		A	U	U	U	E							
Vehicle Manufacturing - Contractor																																							
	1	FY 05	A	53	4	49	5	3	3	5	5	5	5	5	5	3	5											0											
	1	FY 07	A	12	0	12			A																	1	1	1	1	1	1	1	1	1	1	4			
	1	FY 05	MC	6	4	2	2																												0				
Total							71	8	63	7	3	3	5	5	5	5	5	5	3	5																	4		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S									
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E								
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P									

M F R	Name - Location	PRODUCTION RATES					Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct	After 1 Oct							
		1	BAE Systems, York, PA	1	5	10			2	Initial			
						Reorder	0	3	14	17			
						Initial							
						Reorder							
						Initial							
						Reorder							
						Initial							
						Reorder							

**FY 09 / 10 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10												Later
							Calendar Year 09												Calendar Year 10												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Vehicle Manufacturing - Contractor																															
	1	FY 05	A	53	53																								0		
	1	FY 07	A	12	8	4	1	1	1	1																			0		
	1	FY 05	MC	6	6																								0		
Total																															
				71	67	4	1	1	1	1																					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS Production rates are monthly production rates.	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	BAE Systems, York, PA	1	5	10	2	1	Initial	0	9	15	21	
							Reorder	0	3	14	17	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)
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Program Elements for Code B Items:	Code: A	Other 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	162.3	2.0	0.0	66.1	77.4	82.6	70.3	66.1	0.0	526.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	162.3	2.0	0.0	66.1	77.4	82.6	70.3	66.1	0.0	526.9
Initial Spares										
Total Proc Cost	162.3	2.0	0.0	66.1	77.4	82.6	70.3	66.1	0.0	526.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The Armored Vehicle Launch Bridge (AVLB) is the legacy assault bridge system supporting gap crossings of heavy forces and consists of a scissors type bridge mounted on an M48/M60 based launcher. AVLBs are primarily assigned to Combat Engineer, Training Units and War Reserve sites.

--The Joint Assault Bridge (JAB) is a joint program with the United States Marine Corps to mount the current Armored Vehicle Launched Bridge on an M1A1 chassis. The JAB replaces the existing M48/M60 chassis of the AVLB with the M1A1 chassis to provide a supportable, survivable system capable of keeping pace on the battle field with the ABRAMS and Bradley equipped forces it supports. JAB will be assigned to Maneuver Augmentation Companies (MAC).

**Justification:**  
FY07 program Modifies 14 LRIP JAB vehicles.

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)						
Program Elements for Code B Items:								Code: A		Other Related Program Elements:		
Description		Fiscal Years										
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total	
Hydraulic/Electrical Upgrade												
0-00-00-0000	Oper Capability	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	
Prior Completed Mods												
0-00-00-0000		146.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	146.2	
Battlefield Combat Identification Systems												
0-00-00-0000	Oper Capability	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
AVLB Common Chassis Mod												
1-97-05-4531	Oper Capability	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	
Joint Assault Bridge												
0-00-00-0000	Oper Capability	0.0	0.0	0.0	66.1	77.4	82.6	70.3	66.1	0.0	362.5	
Totals		162.5	0.0	0.0	66.1	77.4	82.6	70.3	66.1	0.0	525.0	

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Joint Assault Bridge [MOD 5] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M1A1/AVLB

DESCRIPTION / JUSTIFICATION:  
 The Joint Assault Bridge (JAB) is a joint program with the United States Marine Corps to mount the current Armored Vehicle Launched Bridge on an M1A1 chassis. The JAB replaces the existing M48/M60 chassis of the AVLB with the M1A1 chassis to provide a supportable, survivable system capable of keeping pace on the battle field with the ABRAMS and Bradley equipped forces it supports. JAB will be assigned to Maneuver Augmentation Companies (MAC).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):  
 MS"B"-- May05  
 Production Qualification Test--Apr 07  
 Limited User Test--Jun 07  
 MS"C"--Jun 07  
 Operational Test--Oct 07  
 Full Rate Production--Feb 08

Installation Schedule

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										14				31				31			
Outputs												1	6	7			31				31

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	27				25												16	144
Outputs				27				25									16	144

METHOD OF IMPLEMENTATION: Depot Application    ADMINISTRATIVE LEADTIME: 3 months    PRODUCTION LEADTIME: 4 months

Contract Dates:                      FY 2006 -    FY 2007 - Dec 07    FY 2008 - Dec 08

Delivery Dates:                      FY 2006 -    FY 2007 - Apr 07    FY 2008 - Apr 08



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Joint Assault Bridge [MOD 5] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity							14		31		31		27		25		16		144	
Installation Kits								35.7		53.8		56.6		46.6		40.1				232.8
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring								0.8												0.8
Engineering Change Orders								2.0												2.0
Data								1.0												1.0
STS								0.7		0.2		0.2		0.2		0.2				1.5
Provisioning								2.5												2.5
PM Support								1.9		1.2		1.3		1.4		1.5				7.3
Matrix Support								0.5		0.5		0.5		0.5		0.5				2.5
<b>Installation of Hardware</b>																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							14	21.0											14	21.0
FY 2008 Equip -- Kits									31	21.7									31	21.7
FY 2009 Equip -- Kits											31	24.0							31	24.0
FY 2010 Equip -- Kits													27	21.6					27	21.6
FY 2011 Equip -- Kits															25	23.8			25	23.8
TC Equip- Kits																	16		16	
Total Installment	0	0.0	0	0.0	0	0.0	14	21.0	31	21.7	31	24.0	27	21.6	25	23.8	16	0.0	144	112.1
Total Procurement Cost		0.0		0.0		0.0		66.1		77.4		82.6		70.3		66.1		0.0		362.5

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature M1 ABRAMS TANK (MOD) (GA0700)
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Program Elements for Code B Items:	Code:	Other 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	977.2	128.7	440.9	364.9	593.6	387.6	178.8	43.5	1993.9	5109.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	977.2	128.7	440.9	364.9	593.6	387.6	178.8	43.5	1993.9	5109.2
Initial Spares										
Total Proc Cost	977.2	128.7	440.9	364.9	593.6	387.6	178.8	43.5	1993.9	5109.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The M1 Abrams Tank (MOD) program applies user-approved modifications to the fielded Abrams family of vehicles. Situational Awareness 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 as well as the Non Primary Power Source (NPS). 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) is the centerpiece of efforts to provide more reliability, durability and a single standard for the vehicle's power train. Key safety improvements include the Driver's Hatch Interlock, the Eyesafe Laser Range Finder (ELRF), and changes to prevent fires originating in the Nuclear, Biological and Chemical (NBC) filter system.

**Justification:**  
FY 2007 procures numerous components and required safety modifications in support of the Abrams family of vehicles. These modifications correct or alleviate operational deficiencies identified during testing, training exercises, or in combat.

Exhibit P-40M, Budget Item Justification Sheet										Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles					P-1 Item Nomenclature M1 ABRAMS TANK (MOD) (GA0700)						
Program Elements for Code B Items:						Code:		Other Related Program Elements:			
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Prior Year Closed Mod's											
0-00-00-0000		528.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	528.4
Abrams Field Upgrades											
1-97-05-4534	Operational	43.1	1.5	1.4	6.9	4.0	4.4	0.5	0.5	63.0	125.3
Abrams Integrated Management (AIM)											
2-04-05-0009	Operational	219.1	26.0	23.2	12.7	1.0	0.0	0.0	0.0	0.0	282.0
Driver's Hatch Interlock (DHI)											
1-97-05-4520	Safety	30.9	5.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	39.1
NBC Fire Prevention											
1-97-05-4524	Safety	4.6	9.0	5.7	7.5	7.2	2.0	0.0	0.0	0.0	36.0
Frontal Armor											
0000000000	Operational	79.6	39.8	55.0	42.6	57.4	49.5	0.0	0.0	0.0	323.9
Improved Turret Side Armor											
1-99-05-4555	Operational	9.2	3.4	8.8	11.5	11.6	4.8	0.0	0.0	0.0	49.3
Eye-Safe Laser Rangefinder (ESLRF)											
1-99-05-4563	Safety	22.9	7.8	10.7	14.1	8.0	1.4	0.0	0.0	0.0	64.9
Engineering Support											
0-00-00-0000	Operational	28.1	1.6	20.5	23.9	25.2	24.6	23.2	23.7	0.0	170.8
Advanced Ammunition Integration											
1-01-05-0011	Operational	0.0	2.0	2.4	2.7	2.7	0.6	0.0	0.0	0.0	10.4
Power Pack Improvement & Integration Optimization											
2-04-05-0008	Operational	0.0	12.0	252.7	168.9	185.9	195.3	0.0	0.0	0.0	814.8
Other Safety or Environmental Mods											
2-04-05-0010	Safety	1.0	3.1	3.4	3.6	12.7	9.6	12.4	1.4	0.0	47.2
Other Operational Enhancements											
2-04-05-0011	Operational	1.9	7.2	11.5	21.3	41.2	17.1	37.7	17.9	0.0	155.8
Situational Awareness (SA)											
2-04-05-0012	Operational	0.0	0.0	37.0	18.8	26.7	0.0	0.0	0.0	0.0	82.5

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006		
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles						P-1 Item Nomenclature M1 ABRAMS TANK (MOD) (GA0700)							
Program Elements for Code B Items:								Code:		Other Related Program Elements:			
Description		Fiscal Years											
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total		
Blue Force Tracking													
2-04-05-0007	Operational	8.3	10.1	5.6	30.4	14.0	0.0	0.0	0.0	0.0	68.4		
M1A1 Abrams Integrated Management (AIM) NGB													
0-00-00-0000	Operational	0.0	0.0	0.0	0.0	196.0	78.3	105.0	0.0	0.0	379.3		
Totals		977.1	128.7	440.9	364.9	593.6	387.6	178.8	43.5	63.0	3178.1		

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

MODELS OF SYSTEM AFFECTED: M1A1 and M1A2 series

**DESCRIPTION / JUSTIFICATION:**

Provides funding for unexpected replacements of Abrams LRU's [Line Replaceable Units] or SRU's [Shop replaceable Units] due to quality or other latent defects. There are no set quantities; upgrades will be applied as needed for the duration of Abrams fielding.

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):**

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0																			
Outputs	0																			

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: Units ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	0																				
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits	0	43.1																			43.1
FY2004 Equip -- Kits	0			1.5																	1.5
FY2005 Equip -- Kits	0					1.4															1.4
FY2006 Equip -- Kits	0							6.9													6.9
FY2007 Equip -- Kits	0								4.0												4.0
FY2008 Equip -- Kits	0										4.4										4.4
FY2009 Equip -- Kits	0												0.5								0.5
FY2010 Equip -- Kits	0														0.5						0.5
TC Equip- Kits	0																			63.0	63.0
<b>Total Installment</b>	0	43.1	0	1.5	0	1.4	0	6.9	0	4.0	0	4.4	0	0.5	0	0.5	0	0.5	0	63.0	125.3
<b>Total Procurement Cost</b>		43.1		1.5		1.4		6.9		4.0		4.4		0.5		0.5		0.5		63.0	125.3

**INDIVIDUAL MODIFICATION**

Date: February 2006

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]/DAGR; 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 Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	665	27	35	31	27	27	26	23	16	27	29	25	19	12	15	13	10				
Outputs	569	33	32	31	29	33	32	26	22	23	24	23	23	23	28	26	13	12	14	11	

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1027
Outputs																		1027

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 9 months  
 Contract Dates: FY 2006 - Mar 05 FY 2007 - Mar 06 FY 2008 - Mar 07  
 Delivery Dates: FY 2006 - Jan 06 FY 2007 - Jan 07 FY 2008 - Jan 08

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>																						
<b>Procurement</b>																						
Kit Quantity																						
Installation Kits	785	174.8	92	23.7	100	21.0	50	10.7												1027	230.2	
Installation Kits, Nonrecurring																						
Equipment																						
Equipment, Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support																						
<b>Installation of Hardware</b>																						
FY 2003 & Prior Equip -- Kits	665	44.3																		665	44.3	
FY 2004 Equip -- Kits			120	2.3																120	2.3	
FY 2005 Equip -- Kits					92	2.2														92	2.2	
FY 2006 Equip -- Kits							100	2.0												100	2.0	
FY 2007 Equip -- Kits									50	1.0										50	1.0	
FY 2008 Equip -- Kits																						
FY 2009 Equip -- Kits																						
FY 2010 Equip -- Kits																						
TC Equip -- Kits																						
Total Installment	665	44.3	120	2.3	92	2.2	100	2.0	50	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1027	51.8
Total Procurement Cost		219.1		26.0		23.2		12.7		1.0		0.0		0.0		0.0		0.0		0.0		282.0



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Driver's Hatch Interlock (DHI) [MOD 4] 1-97-05-4520

MODELS OF SYSTEM AFFECTED: IPM1 - 818, M1A1 = 4327, TOTAL - 5145

**DESCRIPTION / JUSTIFICATION:**

The Driver's Hatch Interlock (DHI) is a modification which provides an electronic interface between the Driver's Hatch and the Turret Drive (rotation) controls while the driver's hatch is open. It ensures the safety of the driver by stopping the turret from rotating while the driver's hatch is open.

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

Preliminary Design Review.....PLANNED: 2Q96 ACCOMPLISHED: 1Q96  
 Critical Design Review.....PLANNED: 3Q96 ACCOMPLISHED: 3Q96  
 Development Test & Evaluation.....PLANNED: 4Q96 ACCOMPLISHED: 4Q96  
 IPR Production Decision.....PLANNED: 4Q97 ACCOMPLISHED: 4Q97  
 ECP Completed.....PLANNED: 1Q98 ACCOMPLISHED: 1Q98  
 Tech Data Package Available.....PLANNED: 1Q98 ACCOMPLISHED: 2Q98

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	3938	213	213	213	213	178	177														
Outputs	3443	213	213	213	213	213	213	212	212												

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		5145
Outputs																		5145

METHOD OF IMPLEMENTATION: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 6 months  
 Contract Dates: FY 2006 - Mar 05 FY 2007 - Mar 06 FY 2008 -  
 Delivery Dates: FY 2006 - Sep 05 FY 2007 - Sep 06 FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Driver's Hatch Interlock (DHI) [MOD 4] 1-97-05-4520

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	3938	24.2	852	3.8	355	1.6														5145	29.6	
Installation Kits	0																					
Installation Kits, Nonrecurring	0																					
Equipment	0																					
Equipment, Nonrecurring	0																					
Engineering Change Orders	0																					
Data	0																					
Training Equipment	0																					
Support Equipment	0																					
Other	0																					
Interim Contractor Support	0																					
<b>Installation of Hardware</b>	0																					
FY2003 & Prior Equip -- Kits	3443	6.7																		3443	6.7	
FY2004 Equip -- Kits	0		852	1.4																852	1.4	
FY2005 Equip -- Kits	0				850	1.4														850	1.4	
FY2006 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
FY2010 Equip -- Kits	0																					
TC Equip- Kits	0																					
<b>Total Installment</b>	3443	6.7	852	1.4	850	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5145	9.5
<b>Total Procurement Cost</b>		30.9		5.2		3.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		39.1

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: NBC Fire Prevention [MOD 5] 1-97-05-4524

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 3127, M1A2 = 0 TOTAL = 3127

**DESCRIPTION / JUSTIFICATION:**  
 The Nuclear, Biological, and Chemical (NBC) Fire Prevention is a series of modifications intended to prevent fires from originating in the NBC filter system. Included are an Automatic electrical shutdown, NBC cover spacers and Sponson drains. Ongoing investigation of tank fires may suggest additional changes. 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 will have varying milestones.

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0																			
Outputs	0																			

FY 2010	FY 2011				FY 2012				FY 2013				To Complete	Totals	
	1	2	3	4	1	2	3	4	1	2	3	4			
Inputs															0
Outputs															0

**METHOD OF IMPLEMENTATION:** ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): NBC Fire Prevention [MOD 5] 1-97-05-4524

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	0																				
Installation Kits	0	4.3		4.7		4.4		5.7		4.9											24.0
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits	0	0.3																			0.3
FY2004 Equip -- Kits	0			4.3																	4.3
FY2005 Equip -- Kits	0					1.3															1.3
FY2006 Equip -- Kits	0							1.8													1.8
FY2007 Equip -- Kits	0								2.3												2.3
FY2008 Equip -- Kits	0										2.0										2.0
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.3	0	4.3	0	1.3	0	1.8	0	2.3	0	2.0	0	0.0	0	0.0	0	0.0	0	0.0	12.0
Total Procurement Cost		4.6		9.0		5.7		7.5		7.2		2.0		0.0		0.0		0.0		0.0	36.0

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Frontal Armor [MOD 6] 00000000000

MODELS OF SYSTEM AFFECTED: Abrams FOV

**DESCRIPTION / JUSTIFICATION:**

This modification to the M1A1 Abrams provides additional armor protection which significantly increases survivability to the soldiers in the field. Frontal armor is produced by the Department of Energy (DOE). Note that application costs are included in the procurement cost.

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

**Installation Schedule**

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

Pr Yr	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		0

METHOD OF IMPLEMENTATION: OGA      ADMINISTRATIVE LEADTIME: 4 months      PRODUCTION LEADTIME: 10 months  
 Contract Dates: FY 2006 - Jan 05      FY 2007 - Jan 06      FY 2008 - Jan 07  
 Delivery Dates: FY 2006 - Oct 05      FY 2007 - Oct 06      FY 2008 - Oct 07

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Frontal Armor [MOD 6] 0000000000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	0																					
Installation Kits	0																					
Installation Kits, Nonrecurring	0																					
Equipment	0																					
Equipment, Nonrecurring	0																					
Engineering Change Orders	0																					
Data	0																					
Training Equipment	0																					
Support Equipment	0																					
Other	46	79.6	104	39.8	135	55.0	75	42.6	75	57.4		49.5								435	323.9	
Interim Contractor Support	0																					
<b>Installation of Hardware</b>	0																					
FY2003 & Prior Equip -- Kits	0																					
FY2004 Equip -- Kits	0																					
FY2005 Equip -- Kits	0																					
FY2006 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
FY2010 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		79.6		39.8		55.0		42.6		57.4		49.5		0.0		0.0		0.0		0.0		323.9

**INDIVIDUAL MODIFICATION**

Date: February 2006

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. Additional installations (240 ea) were procured in GA0730, System Enhancement PGM: SEP M1A2.

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: 1Q01 ACCOMPLISHED: 1Q01  
 Tech Data Package Available.....PLANNED: 4Q00 ACCOMPLISHED: 4Q00

Installation Schedule

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	84	10	11	11	11	63	63	63	63	63	64	64	64	52	52	53	53				
Outputs	41	10	11	11	11	22	22	22	22	51	52	52	52	63	64	64	64	52	52	53	53

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																	0	844
Outputs																		844

METHOD OF IMPLEMENTATION:      Contr Team      ADMINISTRATIVE LEADTIME:      6 months      PRODUCTION LEADTIME:      12 months

Contract Dates:                      FY 2006 - Jan 05                      FY 2007 - Nov 05                      FY 2008 - Nov 06

Delivery Dates:                      FY 2006 - Nov 05                      FY 2007 - Nov 06                      FY 2008 - Nov 07

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	84	8.7	43	2.5	252	6.9	255	6.9	210	5.8									844	30.8	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits	41	0.5																		41	0.5
FY2004 Equip -- Kits	0		43	0.9																43	0.9
FY2005 Equip -- Kits	0				88	1.9														88	1.9
FY2006 Equip -- Kits	0						207	4.6												207	4.6
FY2007 Equip -- Kits	0								255	5.8										255	5.8
FY2008 Equip -- Kits	0										210	4.8								210	4.8
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
<b>Total Installment</b>	41	0.5	43	0.9	88	1.9	207	4.6	255	5.8	210	4.8	0	0.0	0	0.0	0	0.0	844	18.5	
<b>Total Procurement Cost</b>		9.2		3.4		8.8		11.5		11.6		4.8		0.0		0.0		0.0		0.0	49.3



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Eye-Safe Laser Rangefinder (ESLRF) [MOD 8] 1-99-05-4563

MODELS OF SYSTEM AFFECTED: Abrams FOV

**DESCRIPTION / JUSTIFICATION:**

This modification is for an improved LASER range finder that is eye-safe at any range. This allows unit training exercises to proceed without the stringent safety precautions needed to protect crewmen from eye damaging LASER beams emitted by the older model range finders.

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

N / A - The M1A1 ESLRF program is a continuation of the M1A2 Upgrade ESLRF program. All development, testing and decision milestones are complete.

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	1537	123	124	124	124	123	124	124	124	123	124	124	124	45	45	45	45				
Outputs	1042	123	124	124	124	123	124	124	124	123	124	124	124	123	124	124	124	45	45	45	45

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		3202
Outputs																		3202

<b>METHOD OF IMPLEMENTATION:</b>	Contractor Team	<b>ADMINISTRATIVE LEADTIME:</b>	3 months	<b>PRODUCTION LEADTIME:</b>	9 months
Contract Dates:	FY 2006 - Nov 04		FY 2007 - Nov 05		FY 2008 - Nov 06
Delivery Dates:	FY 2006 - Aug 05		FY 2007 - Aug 06		FY 2008 - Aug 07

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Eye-Safe Laser Rangefinder (ESLRF) [MOD 8] 1-99-05-4563

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	1537	22.0	495	6.4	495	9.6	495	11.3	180	4.2									3202	53.5	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits	1042	0.9																	1042	0.9	
FY2004 Equip -- Kits	0		495	1.4															495	1.4	
FY2005 Equip -- Kits	0				495	1.1													495	1.1	
FY2006 Equip -- Kits	0						495	2.8											495	2.8	
FY2007 Equip -- Kits	0								495	3.8									495	3.8	
FY2008 Equip -- Kits	0										180	1.4							180	1.4	
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
<b>Total Installment</b>	1042	0.9	495	1.4	495	1.1	495	2.8	495	3.8	180	1.4	0	0.0	0	0.0	0	0.0	3202	11.4	
<b>Total Procurement Cost</b>		22.9		7.8		10.7		14.1		8.0		1.4		0.0		0.0		0.0		64.9	

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Engineering Support [MOD 9] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Whole Fleet

**DESCRIPTION / JUSTIFICATION:**

Support encompasses government salaries associated with the Abrams tank modification efforts as well as contractor System Technical Support (STS), Total Package Fielding (TPF), and Special Tools & Test Equipment (ST&TE) for the Abrams fleet.

Modification support is synergistically intertwined with related efforts funded in GA0730 [M1A2 SEP Retrofit].

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

N/A

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs	0																				

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

0 months

**PRODUCTION LEADTIME:**

0 months

Contract Dates: FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates: FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Engineering Support [MOD 9] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RDT&amp;E</b>	0																			
<b>Procurement</b>	0																			
Kit Quantity	0																			
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support	0	28.1		1.6		20.5		23.9		25.2		24.6		23.2		23.7		0.0		170.8
Other	0																			
Interim Contractor Support	0																			
<b>Installation of Hardware</b>	0																			
FY2003 & Prior Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		28.1		1.6		20.5		23.9		25.2		24.6		23.2		23.7		0.0		170.8

**INDIVIDUAL MODIFICATION**

Date: February 2006

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**

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0	409	409	410	307	307	307	308	307	307	307	308	308	307	307	307				
Outputs	0					409	409	410	307	307	307	308	307	307	307	308	308	307	307	307

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		4915
Outputs																		4915

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 9 months  
 Contract Dates: FY 2006 - Jan 05 FY 2007 - Nov 05 FY 2008 - Nov 06  
 Delivery Dates: FY 2006 - Jan 06 FY 2007 - Aug 06 FY 2008 - Aug 07

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	0		1228		1229		1229		1229											4915		
Installation Kits	0			2.0		2.0		2.1		2.1											8.2	
Installation Kits, Nonrecurring	0																					
Equipment	0																					
Equipment, Nonrecurring	0																					
Engineering Change Orders	0																					
Data	0																					
Training Equipment	0																					
Support Equipment	0																					
Other	0																					
Interim Contractor Support	0																					
<b>Installation of Hardware</b>	0																					
FY2003 & Prior Equip -- Kits	0																					
FY2004 Equip -- Kits	0																					
FY2005 Equip -- Kits	0				1228	0.4														1228	0.4	
FY2006 Equip -- Kits	0						1229	0.6												1229	0.6	
FY2007 Equip -- Kits	0								1229	0.6										1229	0.6	
FY2008 Equip -- Kits	0										1229	0.6								1229	0.6	
FY2009 Equip -- Kits	0																					
FY2010 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	0	0.0	0	0.0	1228	0.4	1229	0.6	1229	0.6	1229	0.6	0	0.0	0	0.0	0	0.0	0	0.0	4915	2.2
Total Procurement Cost		0.0		2.0		2.4		2.7		2.7		0.6		0.0		0.0		0.0		0.0		10.4

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

MODELS OF SYSTEM AFFECTED: M1A2 SEP, M1A1

**DESCRIPTION / JUSTIFICATION:**

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.

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0								60	80												
Outputs	0										17	35	31	32	25							

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		140
Outputs																		140

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months  
 Contract Dates: FY 2006 - Jan 06 FY 2007 - Dec 06 FY 2008 - Dec 07  
 Delivery Dates: FY 2006 - Jan 07 FY 2007 - Dec 07 FY 2008 - Dec 08

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	0																					
Installation Kits	0																					
Installation Kits, Nonrecurring	0																					
Equipment	0					252.7		168.9		185.9		195.3									802.8	
Equipment, Nonrecurring	0																					
Engineering Change Orders	0																					
Data	0																					
Training Equipment	0																					
Support Equipment	0																					
Other	0		140	12.0																140	12.0	
Interim Contractor Support	0																					
<b>Installation of Hardware</b>	0																					
FY2003 & Prior Equip -- Kits	0																					
FY2004 Equip -- Kits	0																					
FY2005 Equip -- Kits	0																					
FY2006 Equip -- Kits	0					83															83	
FY2007 Equip -- Kits	0							57													57	
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
FY2010 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	0	0.0	0	0.0	83	0.0	57	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	140	0.0
Total Procurement Cost		0.0		12.0		252.7		168.9		185.9		195.3		0.0		0.0		0.0		0.0		814.8



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Other Safety or Environmental Mods [MOD 12] 2-04-05-0010

MODELS OF SYSTEM AFFECTED: M1A1, M1A2

**DESCRIPTION / JUSTIFICATION:**

This modification includes an ammo door latch pin to improve the strength of the current locking pin during ballistic events, a redesigned fire bottle to eliminate uncommanded fire bottle discharges, a redesigned stub base deflector (loader's tray), and an electronic muzzle reference sensor which provides a non-radioactive alternative to the current tritium based method of illumination for the tank reticle. 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.

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs	0																					

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						0
Outputs																						0

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 9 months  
 Contract Dates: FY 2006 - Jan 05 FY 2007 - Dec 05 FY 2008 - Dec 06  
 Delivery Dates: FY 2006 - Sep 05 FY 2007 - Sep 06 FY 2008 - Sep 07

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Other Safety or Environmental Mods [MOD 12] 2-04-05-0010

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity																					
Installation Kits	0	1.0		2.8		2.8		2.9		10.3		7.4		10.2		1.0					38.4
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits	0																				
FY2004 Equip -- Kits	0			0.3																	0.3
FY2005 Equip -- Kits	0					0.6															0.6
FY2006 Equip -- Kits	0							0.7													0.7
FY2007 Equip -- Kits	0									2.4											2.4
FY2008 Equip -- Kits	0											2.2									2.2
FY2009 Equip -- Kits	0												2.2								2.2
FY2010 Equip -- Kits	0														0.4						0.4
TC Equip- Kits	0																				
Total Installment	0	0.0	0	0.3	0	0.6	0	0.7	0	2.4	0	2.2	0	2.2	0	0.4	0	0.0	0	0	8.8
Total Procurement Cost		1.0		3.1		3.4		3.6		12.7		9.6		12.4		1.4		0.0			47.2

**INDIVIDUAL MODIFICATION**

Date: February 2006

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.

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs	0																			

FY 2010	FY 2011				FY 2012				FY 2013				To Complete	Totals	
	1	2	3	4	1	2	3	4	1	2	3	4			
Inputs															0
Outputs															0

**METHOD OF IMPLEMENTATION:** Contractor/Depot ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 9 months  
 Contract Dates: FY 2006 - Jan 05 FY 2007 - Dec 05 FY 2008 - Dec 06  
 Delivery Dates: FY 2006 - Sep 05 FY 2007 - Sep 06 FY 2008 - Sep 07

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity																					
Installation Kits	0	1.9		7.0		11.0		20.9		37.0		16.7		30.9		14.7					140.1
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits																					
FY2004 Equip -- Kits	0			0.2																	0.2
FY2005 Equip -- Kits	0					0.5															0.5
FY2006 Equip -- Kits	0							0.4													0.4
FY2007 Equip -- Kits	0								4.2												4.2
FY2008 Equip -- Kits	0										0.4										0.4
FY2009 Equip -- Kits	0												6.8								6.8
FY2010 Equip -- Kits	0														3.2						3.2
TC Equip- Kits	0																				
Total Installment	0	0.0	0	0.2	0	0.5	0	0.4	0	4.2	0	0.4	0	6.8	0	3.2	0	0.0	0	0	15.7
Total Procurement Cost		1.9		7.2		11.5		21.3		41.2		17.1		37.7		17.9		0.0			155.8

**INDIVIDUAL MODIFICATION**

Date: February 2006

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. Components of this kit will be integrated into the Abrams FOV.

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

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

**Installation Schedule**

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									21	29	25	19	12	15	13	10				
Outputs												17	23	28	26	13	12	14	11	

1	2	3	4	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals	
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Inputs																						144
Outputs																						144

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 15 months  
 Contract Dates: FY 2006 - Mar 06 FY 2007 - Mar 07 FY 2008 - Mar 08  
 Delivery Dates: FY 2006 - Sep 06 FY 2007 - Sep 06 FY 2008 - Sep 06

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity																				
Installation Kits					94	37.0	50	18.8	54	26.7									198	82.5
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2003 & Prior Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							17												17	
FY 2008 Equip -- Kits									90										90	
FY 2009 Equip -- Kits										91									91	
FY 2010 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	17	0.0	90	0.0	91	0.0	0	0.0	0	0.0	0	0.0	198	0.0
Total Procurement Cost		0.0		0.0		37.0		18.8		26.7		0.0		0.0		0.0		0.0		82.5

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 signals to the Precision Lightweight Global Positioning System Receiver (PLGR). The PLGR 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**

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

1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	To Complete	Totals	
																		FY 2010
Inputs																		0
Outputs																		0

**METHOD OF IMPLEMENTATION:** Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 9 months  
 Contract Dates: FY 2006 - Mar 05 FY 2007 - Mar 06 FY 2008 - Mar 07  
 Delivery Dates: FY 2006 - Jan 06 FY 2007 - Jan 07 FY 2008 - Jan 08

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	0																				
Installation Kits	233	8.3	100	10.1	68	5.6	362	30.4	164	14.0									927	68.4	
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2003 & Prior Equip -- Kits	0																				
FY2004 Equip -- Kits	0																				
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
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		8.3		10.1		5.6		30.4		14.0		0.0		0.0		0.0		0.0		0.0	68.4



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: M1A1 Abrams Integrated Management (AIM) NGB [MOD 16] 0-00-00-0000

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; Block G Mods to correct problems found during live fire testing and combat; Pulse Jet System (PJAS) to improve engine air filtration; and mitigation of electronics obsolescence by replacing the analog hull and turret network boxes with digital units. This is to support M1A1 AIM National Guard Bureau Modularity Requirement to meet the 18/15 SEP A3/AIM ODS fleet mixtures supporting the Army Campaign Plan for Heavy Brigade Combat Teams.

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

Various-Milestones differ for individual modifications.

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																20	30	30	30	8	
Outputs																10	30	30	30	18	

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs			20	23	22	20															203
Outputs				12	24	23	26														203

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 8 months  
 Contract Dates: FY 2006 - Jan 08 FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - Sep 08 FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): M1A1 Abrams Integrated Management (AIM) NGB [MOD 16] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity																				
Installation Kits									118	193.1		51.8	85	89.0					203	333.9
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits									10	2.9									10	2.9
FY 2009 Equip -- Kits											108	26.5							108	26.5
FY 2010 Equip -- Kits													85	16.0					85	16.0
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	10	2.9	108	26.5	85	16.0	0	0.0	0	0.0	203	45.4
Total Procurement Cost		0.0		0.0		0.0		0.0		196.0		78.3		105.0		0.0		0.0		379.3

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)
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Program Elements for Code B Items:		Code:		Other 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	106	124		23	23	43				319
Gross Cost	509.9	573.6		171.1	172.1	255.8	11.5			1694.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	509.9	573.6		171.1	172.1	255.8	11.5			1694.1
Initial Spares										
Total Proc Cost	509.9	573.6		171.1	172.1	255.8	11.5			1694.1
Flyaway U/C										
Weapon System Proc U/C	4.8	4.6		7.4	7.5	5.9				5.3

**Description:**  
This program upgrades M1A2 tanks to the newer System Enhancement Package (SEP) configuration. It will upgrade the M1A2's computer systems and its 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 procures 23 M1A2 SEP Retrofit vehicles in support of modularization and modernization of the Abrams fleet to meet the 18/15 SEP A3/AIM ODS fleet mixtures supporting the Army Campaign Plan for Heavy Brigade Combat Teams. The SEP Program enhances the combat effectiveness of the Abrams Tank Fleet while maintaining the key elements of the tank industrial base.

FY2005 includes supplemental funding of \$294 million for production of 60 each M1A2 SEP Retrofit vehicles.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			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		A	299172	124	2413				56643	23	2463
FLIR		A	51082	124	412				10120	23	440
GFE			91310	124	736				28252	23	1228
M1A2 Depot-Maintenance Pre-MOD			25154	124	203				6490	23	282
STS, TPF, ST&TS, Gov't Spt			106916						69592		
<b>Total</b>			<b>573634</b>						<b>171097</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>SEP</b>										
FY 2005	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jan 05	Jan 06	64	2413			
FY 2005	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun 05	Jan 07	60	2413			
FY 2007	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jan 07	Jan 09	23	2463			
<b>FLIR</b>										
FY 2005	Various	SS/FFP	CECOM	Feb 05	Aug-05	124	412			
FY 2007	Various	SS/FFP	CECOM	Feb 07	Aug 08	23	440			

REMARKS:

**FY 04 / 05 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04														Fiscal Year 05											Later
							Calendar Year 04														Calendar Year 05											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	P	
SEP																																
	7	FY 05	A	64	0	64																						64				
	7	FY 05	A	60	0	60																						60				
	7	FY 07	A	23	0	23																						23				
Total				147		147																						147				
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E		
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 7	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
7	Joint Systems Manufacturing, Lima, OH	5	25	70	0	Initial	0	4	25	29	
						Reorder	0	8	22	30	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					



<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>										P-1 ITEM NOMENCLATURE SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)										Date: February 2006			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	------------------------	--	--	--

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08										Fiscal Year 09										Later							
							Calendar Year 08										Calendar Year 09																	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E			
SEP																																		
	7	FY 05	A	64	64																							0						
	7	FY 05	A	60	54	6	6																					0						
	7	FY 07	A	23	0	23																		2	2	2	2	2	5					
<b>Total</b>						147	118	29	6															2	2	2	2	2	2	2	2	2	2	5
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					
						T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	7			Initial	Reorder			
7	Joint Systems Manufacturing, Lima, OH	5	25	70	0		Initial	0	4	25	29	
							Reorder	0	8	22	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)
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Program Elements for Code B Items:		Code:		Other 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		20	20	20	20	20	8	8	Continuing	Continuing
Gross Cost	32.6	0.3	0.4	0.4	0.4	0.4	0.2	0.2		34.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	32.6	0.3	0.4	0.4	0.4	0.4	0.2	0.2		34.9
Initial Spares										
Total Proc Cost	32.6	0.3	0.4	0.4	0.4	0.4	0.2	0.2		34.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is essential for effective maintenance on all tracked vehicles.

**Justification:**  
FY2007 procures equipment essential for organizational maintenance personnel to maintain full tracked vehicles in an acceptable state of readiness. Funding of this program will establish and maintain the operational capability of the Bradley Fighting Vehicle, M1 Tank, and Howitzers. Commanders have been forced to use antiquated tools or substitute non-standard items that are not on their MTOE. This has detrimental impacts on safety, supportability, and movement requirements, which is critical in supporting modularity.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)			Weapon System Type:	Date: February 2006					
<b>WTCV Cost Elements</b>		ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
		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. Full Tracked Vehicle Tool Set					201	20	10	211	20	11	
<b>Total</b>					<b>201</b>			<b>211</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)								
WBS Cost Elements:	Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. Full Tracked Vehicle Tool Set</b>											
FY 2006	Rock Island Arsenal Rock Island, IL		REQN/PW D	TACOM, Rock Island	MAR 06	MAR 07	20	10	Y	N	
FY 2007	Rock Island Arsenal Rock Island, IL		REQN/PW D	TACOM, Rock Island	DEC 06	DEC 07	20	11	Y	N	

REMARKS:

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Item Nomenclature PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)
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Program Elements for Code B Items:	Code:	Other 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	356.4	8.2	10.1	11.7	11.9	12.2	13.3	10.5	0.0	434.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	356.4	8.2	10.1	11.7	11.9	12.2	13.3	10.5	0.0	434.2
Initial Spares										
Total Proc Cost	356.4	8.2	10.1	11.7	11.9	12.2	13.3	10.5	0.0	434.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program provides for the Provision of Industrial Facilities. Funds are used to establish, modernize, expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement and Modernization to Government owned equipment and real property used in the production of Weapons and Tracked Combat Vehicles. The program also provides funding for Layaway of Industrial Facilities and for the redistribution of equipment no longer required for the production of Army systems. This effort supports the Reset, AIM, SEP Programs and Spiral-Out Framework. Funding is required for the preservation, packing, crating, handling, and transportation (PCH&T) of equipment excess to production, where such actions do not constitute substantial or complete shutdown or excessing of U.S. Army Tank-automotive and Armaments Command production equipment. This program also funds projects to prevent unnecessary deterioration, perform maintenance, cover storage expenses of idle items of Government-owned equipment, and unplanned repairs to active equipment as situations arise.

**Justification:**  
FY07 procures Production Support Equipment, Replacement of Government Owned Industrial Plant Equipment (IPE) and government owned real property at Joint System Manufacturing Center at Lima (JSMCL)(formerly Lima Army Tank Plant (LATP)) and Government owned IPE at contractor-owned manufacturing facilities at Muskegon, MI, Scranton, PA, Indianapolis, IN and other locations. This request also supports items such as Emergency/Unplanned Repairs to prevent loss of resources, production interruptions, and threats to security, worker safety, and the environment. Projects include milling capabilities, upgrading of a grinding machine, and rehab of machining centers. At JSMCL, tasks include rehab of weld machines, roof repair and resurfacing of deteriorating asphalt and concrete, and rehab of machining centers. These efforts help prevent increased costs due to obsolete or uneconomical equipment and avoids violations of environmental and safety laws and regulations. Funding for Layaway of Industrial Facilities affords reduced costs by excessing equipment no longer needed.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles	P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			Weapon System Type:	Date: February 2006					
<b>WTCV Cost Elements</b>		ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
		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
PIF			7881			9740			11244		
LIF			303			381			441		
<b>Total</b>			<b>8184</b>			<b>10121</b>			<b>11685</b>		

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

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

P-1 Item Nomenclature  
PIF1 OMNIBUS(TCV-WTCV) (GA2001)

Program Elements for Code B Items:

Code:

Other 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	316.8	7.9	9.7	11.2	11.5	11.7	12.8	9.9	0.0	391.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	316.8	7.9	9.7	11.2	11.5	11.7	12.8	9.9	0.0	391.6
Initial Spares										
Total Proc Cost	316.8	7.9	9.7	11.2	11.5	11.7	12.8	9.9	0.0	391.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This program provides for the Provision of Industrial Facilities. Funds are needed to establish, modernize, expand, or replace facilities owned by the Army. Funds provide Production Support Equipment Replacement and Modernization to Government Owned Equipment and real property required for production and production testing of Weapons and Tracked Combat Vehicles. This program also supports the Reset, AIM, SEP Programs and Spiral-Out Framework.

**Justification:**

FY07 procures Production Support Equipment, Replacement of Government Owned Industrial Plant Equipment (IPE) and Government owned real property at Joint System Manufacturing Center at Lima (JSMCL) (formerly LATP - Lima Army Tank Plant) and Government Owned IPE at contractor-owned manufacturing facilities at Muskegon MI, Scranton PA, Indianapolis, IN and other locations. This request also supports items such as Emergency/Unplanned Repairs to prevent loss of resources, production interruptions, and threats to security, worker safety, and the environment. Representative projects include milling capabilities, upgrading of a grinding machine, and rehab of machining centers. At JSMCL, tasks such as rehab of weld machines, maintenance of real estate such as roof repair resurfacing of deteriorating asphalt and concrete, and rehab of machining centers are samples of projects to be accomplished. Such efforts help prevent increased costs due to use and maintenance of obsolete or uneconomical equipment and avoids violations of environmental and safety laws and regulations.

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)
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Program Elements for Code B Items:	Code:	Other 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	427	35		10	37	65	68	67		709
Gross Cost	248.7	58.1		20.4	50.7	65.0	65.8	66.9		575.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	248.7	58.1		20.4	50.7	65.0	65.8	66.9		575.5
Initial Spares										
Total Proc Cost	248.7	58.1		20.4	50.7	65.0	65.8	66.9		575.5
Flyaway U/C										
Weapon System Proc U/C	0.6	1.7		2.0	1.4	1.0	1.0	1.0		0.8

**Description:**  
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.

**Justification:**  
FY2007 procures 10 M119A2 105MM Towed Howitzers.



<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		P-1 Line Item Nomenclature: HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)			Weapon System Type:		Date: February 2006			
	<b>WTCV Cost Elements</b>		ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>	
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
M119A2 105mm Howitzer Production			46060	35	1316				8799	10	880
Basic Issue Items & Initial Spares			1202						188		
Test / Acceptance			1640						3882		
System Eng / Program Mgt / Fielding			8655						7380		
HMMWV Towing Kits			500						120		
<b>Total</b>			<b>58057</b>						<b>20369</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>M119A2 105mm Howitzer Production</b>										
FY 2005	Rock Island Arsenal Rock Island, IL	MIPR		Jun '05	Dec '06	35	1316			
FY 2007	Rock Island Arsenal Rock Island, IL	MIPR		Oct '06	Oct '07	10	880			
FY 2008	Rock Island Arsenal Rock Island, IL	MIPR		Oct '07	Oct '08	37	1017			
FY 2009	Rock Island Arsenal Rock Island, IL	MIPR		Oct '08	Oct '09	65	771			
FY 2010	Rock Island Arsenal Rock Island, IL	MIPR		Oct '09	Oct '10	68	773			
FY 2011	Rock Island Arsenal Rock Island, IL	MIPR		Oct '10	Oct '11	67	695			

REMARKS:

**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05													Fiscal Year 06											Later
							Calendar Year 05													Calendar Year 06											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
M119A2 105mm Howitzer Production																															
	1	FY 05	A	35	0	35															A								35		
	1	FY 07	A	10	0	10																							10		
	1	FY 08	A	37	0	37																							37		
	1	FY 09	A	65	0	65																							65		
	1	FY 10	A	68	0	68																							68		
	1	FY 11	A	67	0	67																							67		
Total						282																							282		
O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P																															

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1			1	Initial	Reorder	Initial	Reorder			
1	Rock Island Arsenal, Rock Island, IL	1	10	10	0	1	Initial	0	0	0	0	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07														Fiscal Year 08														Later	
							Calendar Year 07														Calendar Year 08															
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	C	V	E		
M119A2 105mm Howitzer Production																																				
	1	FY 05	A	35	0	35			2	3	6	6	3	3	3	3	3	3											0							
	1	FY 07	A	10	0	10	A													1	1	1	1	1	1	1	1	1	0							
	1	FY 08	A	37	0	37														A									37							
	1	FY 09	A	65	0	65																							65							
	1	FY 10	A	68	0	68																							68							
	1	FY 11	A	67	0	67																							67							
Total																																				
				282		282			2	3	6	6	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	237							
									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
									C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	C	V	E

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	10	10			0	0				0
1	Rock Island Arsenal, Rock Island, IL	1	10	10	0	1	Initial	0	0	0	0	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 09 / 10 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10												Later
							Calendar Year 09												Calendar Year 10												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
M119A2 105mm Howitzer Production																															
	1	FY 05	A	35	35																								0		
	1	FY 07	A	10	10																								0		
	1	FY 08	A	37	0	37	3	3	3	3	3	3	3	3	3	3	4												0		
	1	FY 09	A	65	0	65	A										6	5	6	5	6	5	6	5	6	5	6	5	5	0	
	1	FY 10	A	68	0	68											A												68		
	1	FY 11	A	67	0	67																							67		
Total																															
				282	45	237	3	3	3	3	3	3	3	3	3	3	4	6	5	6	5	6	5	6	5	6	5	5	5	135	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	1	1			0	0			
1	Rock Island Arsenal, Rock Island, IL	1	10	10	0	1	Initial	0	0	0	0
							Reorder	0	0	0	0
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

**FY 11 / 12 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
HOWITZER, LIGHT, TOWED, 105MM, M119 (G01300)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11														Fiscal Year 12										Later
							Calendar Year 11														Calendar Year 12										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
M119A2 105mm Howitzer Production																															
	1	FY 05	A	35	35																								0		
	1	FY 07	A	10	10																								0		
	1	FY 08	A	37	37																								0		
	1	FY 09	A	65	65																								0		
	1	FY 10	A	68	0	68	6	5	6	6	6	6	5	6	5	6	5												0		
	1	FY 11	A	67	0	67	A											6	6	6	5	6	5	6	5	6	5	6	5	0	
Total																															
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	C
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Rock Island Arsenal, Rock Island, IL	1	10	10	0	1	Initial	0	0	0	0	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature Integrated Air Burst Weapon System Family (G16101)
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Program Elements for Code B Items: 0604802A - Wpns & Munitions - Eng Dev	Code: B	Other 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		100		10200	40000	45600	48300	49800		194000
Gross Cost		0.4		32.3	122.1	137.6	142.7	144.6		579.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		0.4		32.3	122.1	137.6	142.7	144.6		579.7
Initial Spares										
Total Proc Cost		0.4		32.3	122.1	137.6	142.7	144.6		579.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
 Roll up for the Integrated Air Burst Weapon System Family.  
 Production funds are for the Objective Individual Combat Weapon.

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

Appropriation / Budget Activity / Serial No:  
Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles

P-1 Item Nomenclature  
XM8 Modular Weapon System (G16102)

Program Elements for Code B Items:  
0604802A - Wpns & Munitions - Eng Dev

Code:  
B

Other 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		100		10200	40000	45600	48300	49800		194000
Gross Cost		0.4		32.3	122.1	137.6	142.7	144.6		579.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		0.4		32.3	122.1	137.6	142.7	144.6		579.7
Initial Spares										
Total Proc Cost		0.4		32.3	122.1	137.6	142.7	144.6		579.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This is the first increment of the Objective Individual Combat Weapon (OICW) Program, providing state-of-the-art technology for a family of 5.56mm assault weapons. The OICW Increment I is a multi-configurable weapon that has four variants: a baseline assault weapon (carbine); a designated marksman; a special compact; and a light machinegun. The family of assault weapons will also be equipped with optics, laser pointer / illuminator and accessory weapons. The accessory weapons consist of the Modular Accessory Shotgun System and Grenade Launcher Module. Both accessory weapons are mounted under the barrel of the primary weapon. To meet changing mission requirements by the Soldier, these variants and accessory weapons will be easily and quickly reconfigured at the unit level with the use of interchangeable assembly groups.

**Justification:**

FY2007 procures the initial OICW weapons for production qualification testing (PQT) and begins fielding the weapon to select Brigade Combat Teams (BCT's). The OICW Increment I Assault Weapon System will have improved features, performance, increased reliability and decreased logistic costs.



<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: XM8 Modular Weapon System (G16102)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>Hardware</b>											
Weapon System		B	300	100	3.00				28560	10200	2.80
<b>Support</b>											
Engineering Support			75						250		
Integrated Logistics			12						225		
Training			9						185		
Fielding / Transportation			4						180		
Initial Spare Parts									45		
<b>Non-Recurring Engineering</b>											
Tooling & Fixtures									2894		
<b>Total</b>			<b>400</b>						<b>32339</b>		

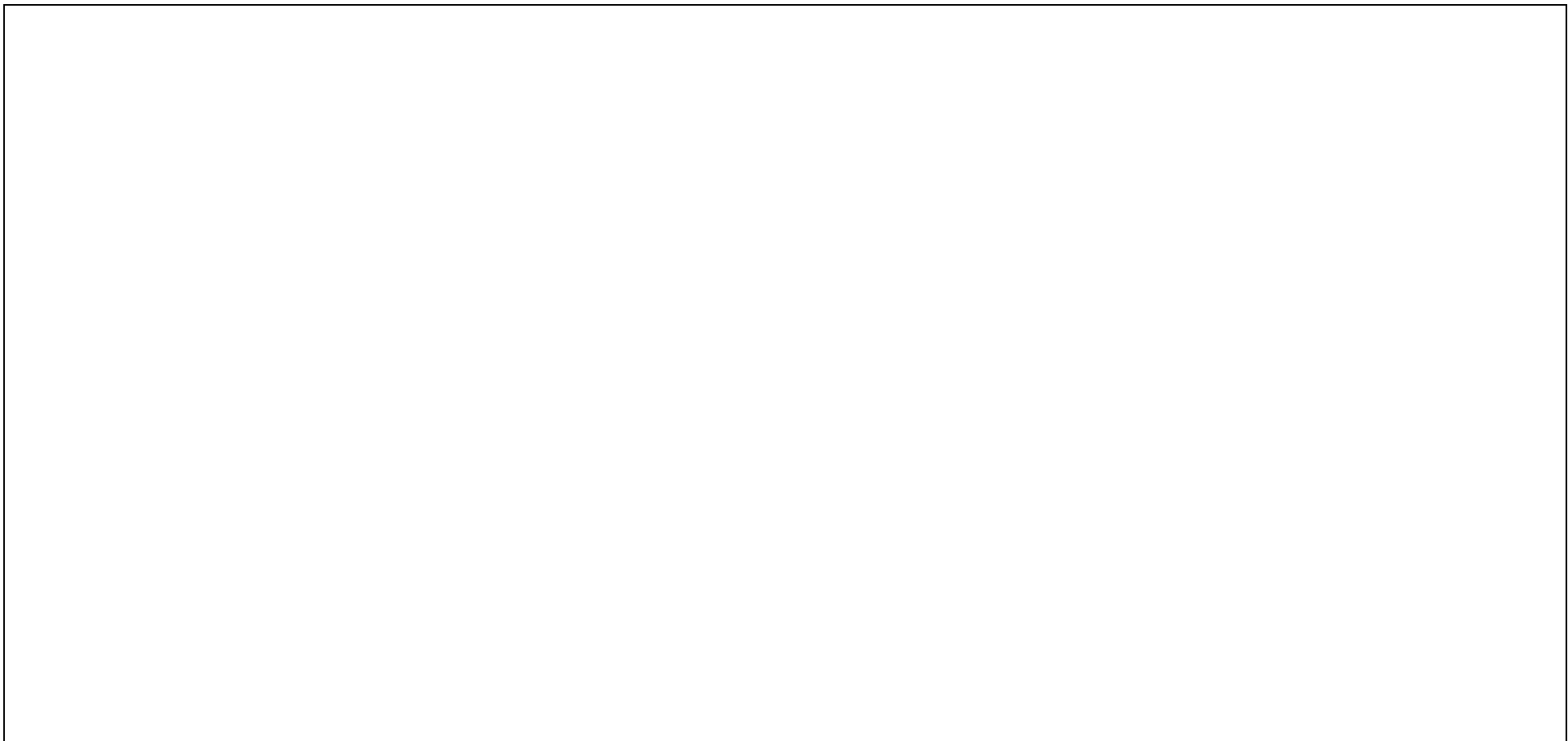
## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:		P-1 Line Item Nomenclature: XM8 Modular Weapon System (G16102)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
<b>Weapon System</b>											
FY 2005	TBS					100	3.00				
FY 2006	TBS					0	0.00				
FY 2007	TBS	C/Option	ARDEC-Picatiny Arsenal, NJ	Jun 08	Jun 09	10200	2.80	No	TBD		

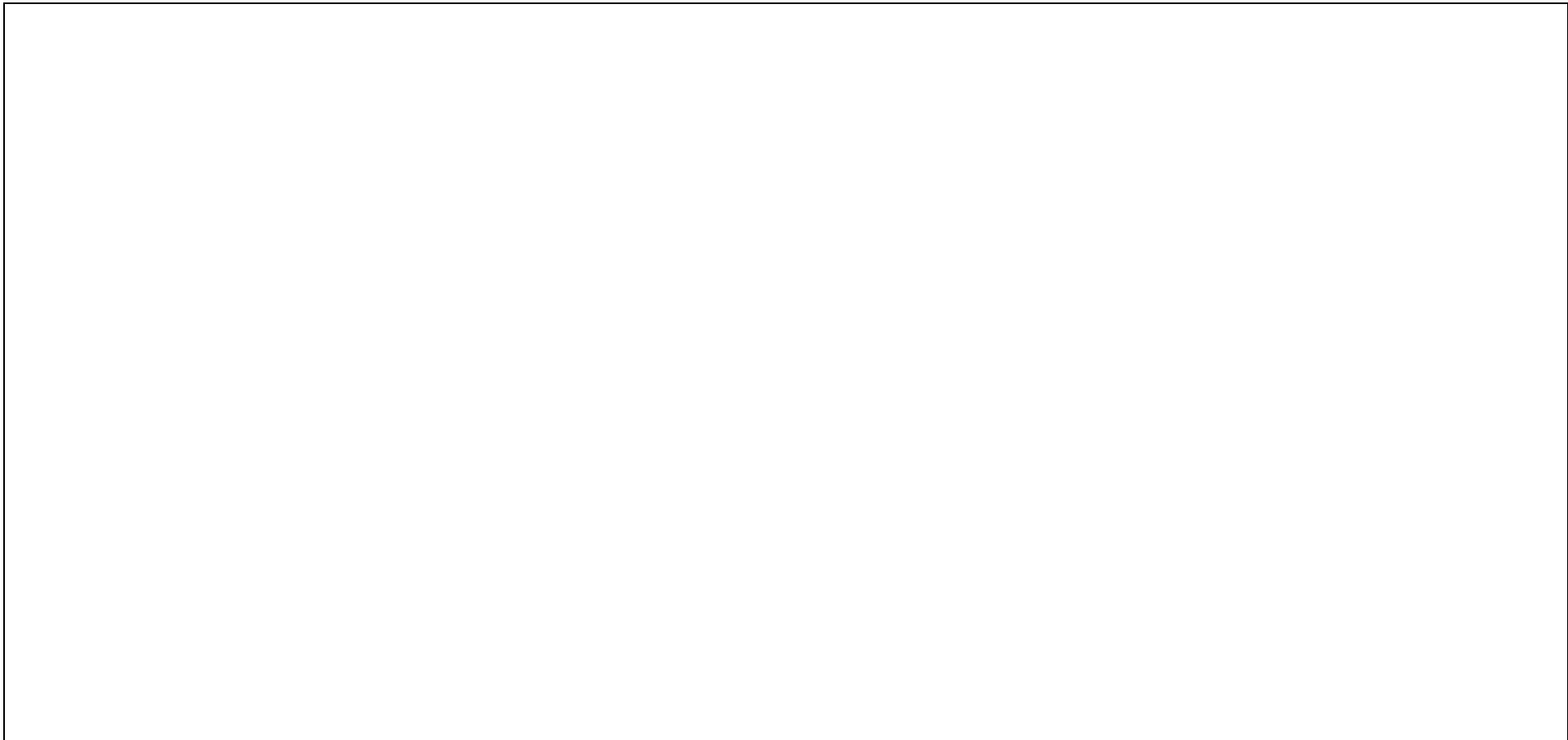
REMARKS: Full and open competition to select a contractor to continue RDTE will be conducted under PE 0604802A and PE 0604601A. Low Rate Initial Production (LRIP) option of the competitive RDT&E contract will be awarded in FY 2008. FY 2009 through FY 2011 will be awarded as options. The contract will be competed in FY 2012 or sooner depending upon negotiation to obtain technical data rights. It is expected that the data rights will be owned by the Government after the FY 2010 buy.

FY 05 / 06 BUDGET PRODUCTION SCHEDULE						P-1 ITEM NOMENCLATURE XM8 Modular Weapon System (G16102)													Date: February 2006														
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05													Fiscal Year 06													Later
							Calendar Year 05													Calendar Year 06													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	V	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E			
Weapon System																																	
		FY 05	A	100	0	100																						100					
		FY 06	A	10400	10400																							0					
		FY 07	A	10200	0	10200																						10200					
		FY 08	A	40000	0	40000																						40000					
		FY 09	A	45600	0	45600																						45600					
		FY 10	A	48300	0	48300																						48300					
		FY 11	A	49800	0	49800																						49800					
Total				204400	10400	194000																						194000					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	V	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E			
							T																							P			



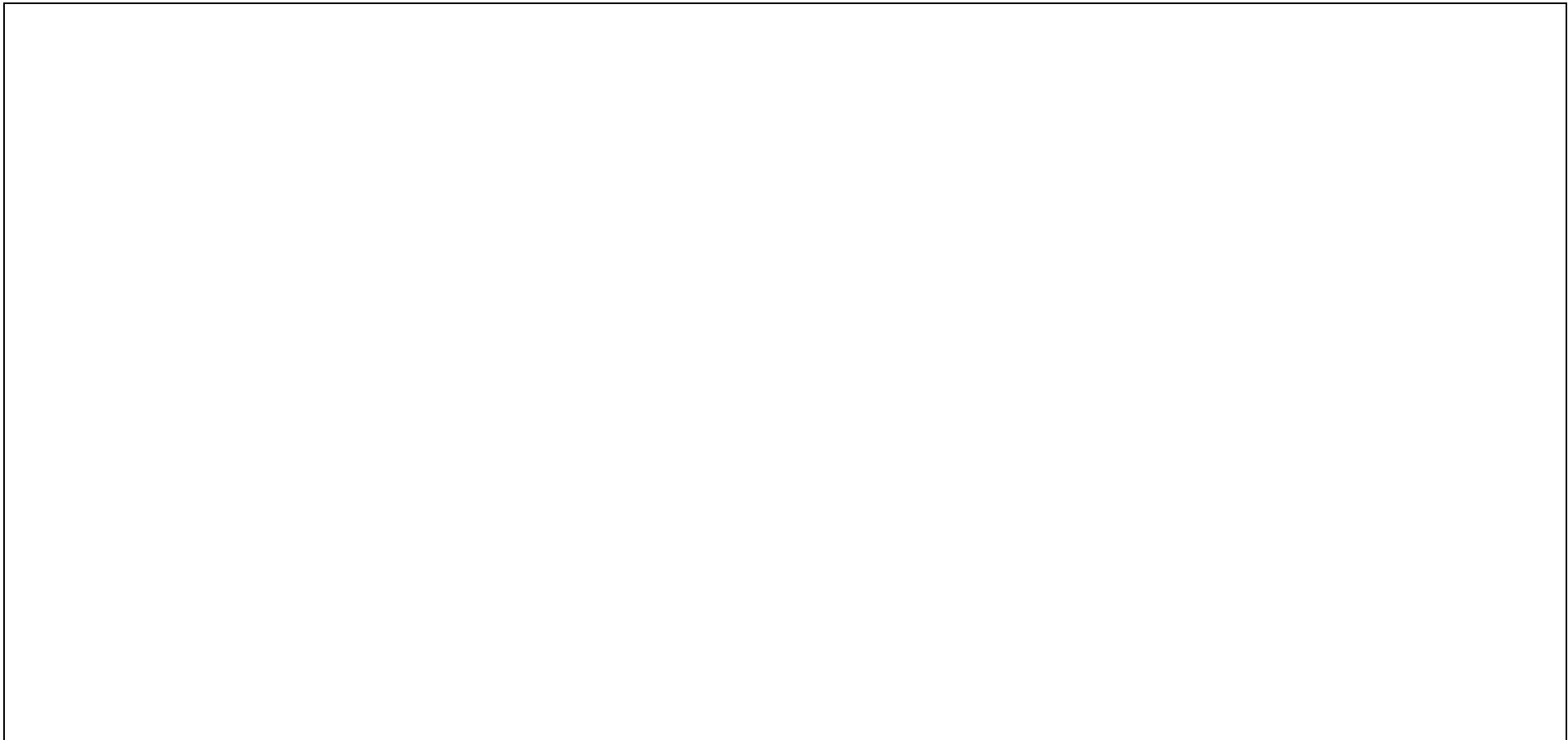
M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
						Initial					Production lead time is estimated to be 17 months for a new contractor.
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

FY 07 / 08 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE XM8 Modular Weapon System (G16102)										Date: February 2006											
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07										Fiscal Year 08										Later				
							Calendar Year 07										Calendar Year 08														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S
							C	V	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E
Weapon System																															
		FY 05	A	100	0	100																						100			
		FY 06	A	10400	10400																							0			
		FY 07	A	10200	0	10200																				A		10200			
		FY 08	A	40000	0	40000																			A			40000			
		FY 09	A	45600	0	45600																						45600			
		FY 10	A	48300	0	48300																						48300			
		FY 11	A	49800	0	49800																						49800			
Total				204400	10400	194000																						194000			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	V	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T																								



M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
						Initial				Production lead time is unknown. The production schedule is a goal for the OICW I program.	
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					





M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
						Initial					Production lead time is unknown. The production schedule is a goal for the OICW I program.
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					



**FY 11 / 12 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
XM8 Modular Weapon System (G16102)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11														Fiscal Year 12										Later	
							Calendar Year 11														Calendar Year 12											
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	V	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U		E
Weapon System																																
		FY 05	A	100	0	100																							100			
		FY 06	A	10400	10400																								0			
		FY 07	A	10200	10200																								0			
		FY 08	A	40000	35550	4450	4450																						0			
		FY 09	A	45600	0	45600	550	5000	5000	5000	5000	5000	5000	5000	5000	50													0			
		FY 10	A	48300	0	48300									4950	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	3350		0			
		FY 11	A	49800	0	49800				A																1650	5000	5000	5000	5000	28150	
Total				204400	56150	148250	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	28250		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	V	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	
							T		C	N	B	R	R	Y	N	L	G	P	T													

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
						Initial				Production lead time is unknown. The production schedule is a goal for the OICW I program.	
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M240 Medium Machine Gun (7.62mm) (G13000)
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Program Elements for Code B Items:		Code: A	Other Related Program Elements:							
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	64468	9380	3147	3025	2674	1742	1660	1582		87678
Gross Cost	320.2	97.1	32.0	43.2	44.5	30.4	30.5	30.5		628.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	320.2	97.1	32.0	43.2	44.5	30.4	30.5	30.5		628.2
Initial Spares										
Total Proc Cost	320.2	97.1	32.0	43.2	44.5	30.4	30.5	30.5		628.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This program procures M240 class machine guns in different configurations for various applications. The M240B Machine Gun is a ground version of the original 7.62mm M240 Machine Gun, and 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 will have a spade grip trigger assembly. It will also require 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 procures 164 M240H Helicopter Machine guns and 2861 M240E6 Light Weight Machine guns to support the new modular force structure. All BLACK HAWK and Chinooks (CH-47) equipped with the M60D will be replaced with the M240H aviation variant. Fielding of the M240H includes the 160th Special Operations Aviation Regiment, the 82nd Airborne Division, the 101st Airborne Division, and the 10th Mountain Division. FY 2007 is the first year of production for the M240E6. The M240E6 will significantly reduce the weight of the current M240B while maintaining the same level of reliability. The M240E6 will replace the M240 in Special Forces/Rangers, Light Infantry and Airborne units.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: M240 Medium Machine Gun (7.62mm) (G13000)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware (Incls Blank Firing Device)											
Hardware (Infantry Version - M240B)		A	61899	7355	8	22897	2522	9			
Hardware Conversion (M240-M240B)			7328	1119	7						
Hardware (Aviation Version - M240H)		A	20724	2025	10	6296	625	11	1656	164	11
Hardware (Light Weight Version - M240E6)		B							38422	2861	13
2. Engineering Support			4740			1730			2044		
3. Integrated Logistics Support			300			250			233		
4. Engineering Change Proposals			156			78			73		
5. Total Package Fielding			370			200			250		
6. Engineering Studies			500			275			250		
7. New Equipment Training			150			80			100		
8. First Destination Transportation			253			126			121		
9. RFI - Barrel Bags			633			26			26		
<b>Total</b>			<b>97053</b>			<b>31958</b>			<b>43175</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Hardware (Infantry Version - M240B)</b>										
FY 2005	FN Mfg Inc., Columbia, SC	Option	TACOM - Rock Island, IL	Dec 04	Jun 05	966	9			
FY 2005	FN Mfg Inc., Columbia, SC	Option	TACOM - Rock Island, IL	Jul 05	Sep 05	2554	9			
FY 2005	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM - Rock Island, IL	Aug 05	Dec 06	3835	9			
FY 2005	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM - Rock Island, IL	Jan 05	Feb 05	1119	7			
FY 2006	TBS	C/FFP	TACOM - Rock Island, IL	May 06	Nov 07	2522	9	Yes		
<b>Hardware (Aviation Version - M240H)</b>										
FY 2004	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM - Rock Island, IL	Sept 04	Feb05	1100	11			
FY 2005	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM - Rock Island, IL	Mar 05	Jan 06	2025	10			
FY 2006	FN Mfg Inc., Columbia, SC	Option	TACOM - Rock Island, IL	Jan 06	Nov 06	625	11	Yes		
FY 2007	FN Mfg Inc., Columbia, SC	Option	TACOM - Rock Island, IL	Jan 07	Feb 07	164	11	Yes		
<b>Hardware (Light Weight Version - M240E6)</b>										
FY 2007	TBS	C/FFP	TACOM - Rock Island, IL	Apr 07	Jul 08	2861	13	No	Mar 07	

REMARKS:

<b>FY 06 / 07 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE M240 Medium Machine Gun (7.62mm) (G13000)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06														Fiscal Year 07														Later
							Calendar Year 06														Calendar Year 07														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					

Hardware (Infantry Version - M240B)																															
	1	FY 05	A	7355	435	6920	298	398	55	33	60	275	248	325	325	325	301	324	201	207	349	370	350	579	850	850	197				0
	2	FY 06	A	2522	0	2522								A																	2522
	1	FY 04	AR	421	314	107	107																								0
	1	FY 05	CG	798	0	798					25	50	75	75	75	75	75	100	100	83	65										0
	1	FY 04	FMS	136	20	116		21	91								4														0
	1	FY 05	FMS	388	0	388		100	100	100	86							2													0
	1	FY 05	MC	930	0	930					25	50	100	100	100	100	135	61	134	125											0
	1	FY 05	NA	1925	0	1925					50	75	50	50	50	50	50	88	190	199	236	280	300	257							0
	1	FY 04	OTH	257	193	64	64																								0
	1	FY 05	OTH	34	10	24		24																							0

Hardware Conversion (M240-M240B)																															
	1	FY 05	A	1119	1000	119																									0

Hardware (Aviation Version - M240H)																																	
	1	FY 04	A	1100	800	300	100	100	100																						0		
	1	FY 05	A	2025	0	2025				200	200	200	200	200	200	200	200	200	25												0		
	1	FY 06	A	625	0	625				A										175	200	200	50								0		
										O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
										C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E
										T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P

M F R	Name - Location	PRODUCTION RATES					Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct	After 1 Oct							
									1	Initial			
1	FN Mfg Inc., Columbia, SC	1200	3500	10500	6	1	Initial	6	5	13	18	FN Manufacturing will increase production of M240 family to 575/Mo by Sep 05, and then to 875/Mo by Oct 06.	
							Reorder	3	3	7	10		
2	TBS	1200	3000	4200	6	2	Initial	6	6	16	22		
							Reorder	3	6	16	22		
							Initial						
							Reorder						
							Initial						
							Reorder						



**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
M240 Medium Machine Gun (7.62mm) (G13000)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08										Fiscal Year 09										Later				
							Calendar Year 08										Calendar Year 09														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E
Hardware (Infantry Version - M240B)																															
	1	FY 05	A	7355	7355																							0			
	2	FY 06	A	2522	0	2522		150	150	200	200	250	250	250	250	275	275	272										0			
	1	FY 04	AR	421	421																							0			
	1	FY 05	CG	798	798																							0			
	1	FY 04	FMS	136	136																							0			
	1	FY 05	FMS	388	388																							0			
	1	FY 05	MC	930	930																							0			
	1	FY 05	NA	1925	1925																							0			
	1	FY 04	OTH	257	257																							0			
	1	FY 05	OTH	34	34																							0			
Hardware Conversion (M240-M240B)																															
	1	FY 05	A	1119	1119																							0			
Hardware (Aviation Version - M240H)																															
	1	FY 04	A	1100	1100																							0			
	1	FY 05	A	2025	2025																							0			
	1	FY 06	A	625	625																							0			
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
								C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	FN Mfg Inc., Columbia, SC	1200	3500	10500	6	1	Initial	6	5	13	18	
							Reorder	3	3	7	10	
2	TBS	1200	3000	4200	6	2	Initial	6	6	16	22	
							Reorder	3	6	16	22	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE M240 Medium Machine Gun (7.62mm) (G13000)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09												Later
							Calendar Year 08												Calendar Year 09												
							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	
	1	FY 07	A	164	164																						0				
Hardware (Light Weight Version - M240E6)																															
	2	FY 07	A	2861	0	2861										200	200	200	250	250	250	300	300	300	300	311		0			
				22660	17277	5383				150	150	200	200	250	250	250	250	250	250	250	250	300	300	300	300	311					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	FN Mfg Inc., Columbia, SC	1200	3500	10500	6	1	Initial	6	5	13	18	
							Reorder	3	3	7	10	
2	TBS	1200	3000	4200	6	2	Initial	6	6	16	22	
							Reorder	3	6	16	22	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M249 SAW Machine Gun (5.56mm) (G12900)
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Program Elements for Code B Items:		Code: A		Other 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	82580	4701	910	8600	8450	8300	8089	7900		129530
Gross Cost	227.7	22.0	3.6	36.6	35.6	35.5	35.5	35.6		432.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	227.7	22.0	3.6	36.6	35.6	35.5	35.5	35.6		432.1
Initial Spares										
Total Proc Cost	227.7	22.0	3.6	36.6	35.6	35.5	35.5	35.6		432.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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 procures 8,600 M249 5.56MM Machine Guns to support the new modular force structure.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: M249 SAW Machine Gun (5.56mm) (G12900)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			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		A	16590	4701	3.5	3140	910	3.5	32794	8600	3.8
Barrel Bags			1093								
Engineering Support			1503			274			2252		
Testing			333								
ILS			300						296		
Fielding			370			70			365		
Engineering Studies									600		
First Destination Transportation			200			15			225		
RFI - Barrel Bags			1618			80			82		
<b>Total</b>			<b>22007</b>			<b>3579</b>			<b>36614</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: M249 SAW Machine Gun (5.56mm) (G12900)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Hardware</b>										
FY 2005	FN Mfg Inc Columbia SC	SS/FFP	TACOM, Picatinny, NJ	Sep 05	Dec 05	4701	3.5			
FY 2006	FN Mfg Inc Columbia SC	Option	TACOM, Picatinny, NJ	Feb 06	May 07	910	3.5	YES		
FY 2007	TBS	C/FFP	TACOM, Picatinny, NJ	May 07	Feb 08	8600	3.8	YES		

REMARKS:

<b>FY 06 / 07 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE M249 SAW Machine Gun (5.56mm) (G12900)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06														Fiscal Year 07										Later
							Calendar Year 06														Calendar Year 07										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	

Hardware																															
	1	FY 04 & Pr	A	82580	82301	279	100	100	79																						0
	1	FY 05	A	4701	0	4701			50	100	100	150	160	160	160	210	260	260	370	330	450	450	450	450	591					0	
	1	FY 06	A	910	0	910					A														284	450	176			0	
	2	FY 07	A	8600	0	8600																		A						8600	
	1	FY 04	AF	750	718	32			18	14																				0	
	1	FY 05	AF	239	0	239						60	179																	0	
	1	FY 04	FMS	202	135	67				67																				0	
	1	FY 05	FMS	97	0	97			3	12		82																		0	
	1	FY 04 & Pr	MC	6993	6145	848	200	200	200	248																				0	
	1	FY 05	MC	1497	0	1497						40	40	40	40	40	40	100	200	200	200	200	36	321					0		
	1	FY 06	MC	1392	0	1392																					200	200	200	792	
	1	FY 04 & Pr	OTH	632	593	39				39																				0	
	1	FY 05	OTH	3240	32	3208				20	400	400	256	221	400	400	400	400	160						50	50	51			0	
Total				111833	89924	21909	300	300	350	500	500	550	558	600	600	650	700	700	570	430	650	650	650	650	627	655	500	427	200	200	9392
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	Y	N	L	G	P		

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
		1	FN Mfg Inc, Columbia SC	1500	1800	7800	18	1	Initial	3	11	
							Reorder	3	4	16	20	
2	TBS	1500	1800	7800	18	2	Initial	3	7	10	17	
							Reorder	3	5	10	15	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE M249 SAW Machine Gun (5.56mm) (G12900)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08														Fiscal Year 09										Later
							Calendar Year 08														Calendar Year 09										
							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	

Hardware																																			
	1	FY 04 & Pr	A	82580	82580																														0
	1	FY 05	A	4701	4701																														0
	1	FY 06	A	910	910																													0	
	2	FY 07	A	8600	0	8600						250	450	450	450	450	450	450	650	650	650	650	650	650	650	650	700	700	350					0	
	1	FY 04	AF	750	750																														0
	1	FY 05	AF	239	239																														0
	1	FY 04	FMS	202	202																														0
	1	FY 05	FMS	97	97																														0
	1	FY 04 & Pr	MC	6993	6993																														0
	1	FY 05	MC	1497	1497																														0
	1	FY 06	MC	1392	600	792	200	200	200	192																									0
	1	FY 04 & Pr	OTH	632	632																														0
	1	FY 05	OTH	3240	3240																														0
				111833	102441	9392	200	200	200	192	250	450	450	450	450	450	450	650	650	650	650	650	650	650	650	700	700	350							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX	1			2	3				4
1	FN Mfg Inc, Columbia SC	1500	1800	7800	18	1	Initial	3	11	4	15		
							Reorder	3	4	16	20		
2	TBS	1500	1800	7800	18	2	Initial	3	7	10	17		
							Reorder	3	5	10	15		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature MK-19 Grenade Machine Gun (40mm) (G13400)
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Program Elements for Code B Items:		Code: A		Other 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	21183	1146	413	68						22810
Gross Cost	351.1	23.8	8.6	1.7						385.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	351.1	23.8	8.6	1.7						385.2
Initial Spares										
Total Proc Cost	351.1	23.8	8.6	1.7						385.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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 procures 68 MK-19 Grenade Machine Guns to support the new modular force structure.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: MK-19 Grenade Machine Gun (40mm) (G13400)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000
1. Hardware		A	19184	1146	17	7078	413	17	1165	68	17
2. GFM			699			267			25		
4. Engineering Support			2619			763			453		
5. Integrated Logistics Support (ILS)			500			150					
6. Fielding			500			150			50		
7. Engineering Studies			235								
8. First Destination Transportation			80			40			10		
9. Arms Rack						135			22		
9. New Equipment Training			24			15					
<b>Total</b>			<b>23841</b>			<b>8598</b>			<b>1725</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: MK-19 Grenade Machine Gun (40mm) (G13400)							
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
<b>1. Hardware</b>										
FY 2005	Gen Dyn Armament & Tech Prod Saco, Maine	SS/FFP	TACOM/ARDEC, Picatinny Arsenal	SEP 05	JUN 06	1146	17			
FY 2006	Gen Dyn Armament & Tech Prod Saco, Maine	Option	TACOM/ARDEC, Picatinny Arsenal	MAR 06	APR 07	413	17	YES		
FY 2007	Gen Dyn Armament & Tech Prod Saco, Maine	Option	TACOM/ARDEC, Picatinny	JAN 07	JUL 07	68	17	YES		

REMARKS:





**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
MK-19 Grenade Machine Gun (40mm) (G13400)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07														Fiscal Year 08												Later
							Calendar Year 07														Calendar Year 08												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	C	
1. Hardware																																	
	1	FY 05	A	1146	250	896	80	130	130	130	154	165	107																0				
	1	FY 06	A	413	0	413							58	165	165	25													0				
	1	FY 07	A	68	0	68				A						68													0				
	1	FY 05	MC	91	0	91	20	20	20	20	11																		0				
	1	FY 05	OTH	225	0	225					35	35	35	35	35	50													0				
Total																																	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	C	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct			After 1 Oct				
1	Gen Dyn Armament & Tech Prod, Saco, Maine	600	2400	3600	18		Initial	8	11	10	21	
							Reorder	8	3	7	10	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature Mortar Systems (G02200)
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Program Elements for Code B Items:	Code:	Other 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	577	307	146							1030
Gross Cost	155.0	53.9	15.2		4.3	3.3	5.2	5.3		242.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	155.0	53.9	15.2		4.3	3.3	5.2	5.3		242.3
Initial Spares										
Total Proc Cost	155.0	53.9	15.2		4.3	3.3	5.2	5.3		242.3
Flyaway U/C										
Weapon System Proc U/C		0.2	0.1							

**Description:**  
Mortar Systems funding supports the production of M224, 60mm; M313, 120mm Training Insert; and M120/M121, 120mm Mortar Weapon Systems. Funding also includes the production of mortar weapon system modifications, to include the procurement of a redesigned breech cap for the 120mm M120/M121 mortar weapon system. Investigation findings and recommendations, subsequent to a Class A malfunction that resulted in fatalities, concluded a redesign of the breech cap would prevent repeat of similar accidents. The redesign allows for the firing pin to be removed during a misfire procedure whereas the current configuration has a fixed firing pin. The malfunction resulted when a stuck or "hung" 120mm High Explosive (HE) round was being removed. During the misfire removal procedure, the round subsequently slid down the tube, contacted the firing pin and exploded in the tube. A removable firing pin will prevent ignition of a round during misfire procedure and removal. A similar design is currently being used with the M252 81mm Mortar Weapon System.

Mortar Systems also procures M67 Sight Units for Active Light Infantry Divisions that use 60mm and 81mm mortar systems. These mortars are currently outfitted with the older M64A1 Sight Unit. This action will ensure commonality of training and sustainment between all mortar platforms, reducing the logistics impact required to sustain two different sight units. Currently, all 120mm mortars use the M67 Sight unit. The M67 is qualified for use on the 60mm M224 Mortar and the 81mm M252 Mortar, provides more than twice the scale illumination for night operations which is a significant benefit.

**Justification:**  
FY 2007 no procurement.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: Mortar Systems (G02200)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000
<b>HARDWARE</b>											
Mortar Wpns Systems Contract I (Repr)			6441	134	48						
Cannon Tube Assemblies			8281	554	15						
M191 Bipods and 120mm Insert Forgings			4695	134	35						
120mm Baseplates			1171	134	9						
Mortar Wpns Systems Contract II (Supp)			17400	173	101	7921	146	54			
Basic Issue and Direct Support Items			2874	173	17	3033	146	21			
M67 Sight Units			550	173	3						
M1101 Cargo Trailer			1772	221	8	1160	116	10			
120mm Breech Cap			613	260	2						
<b>Subtotal Hardware</b>			<b>43797</b>			<b>12114</b>					
<b>PRODUCTION SUPPORT</b>											
Production Engineering - Picatinny ARDEC			4378			1197					
Production Engineering - Benet Labs			1268								
Operations and New Equipment Training			2557			1030					
Proof and Acceptance			1542			500					
Transportation			392								
<b>Subtotal Production Support</b>			<b>10137</b>			<b>2727</b>					
<b>NON-RECURRING COSTS</b>											
First Article Test						356					
<b>Subtotal Non-Recurring Costs</b>						<b>356</b>					
<b>TOTAL</b>			<b>53934</b>			<b>15197</b>					
<b>Total</b>			<b>53934</b>			<b>15197</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

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
<b>Mortar Wpns Systems Contract I (Repr)</b>										
FY 2005	Computer Sciences Corporation Falls Church, VA	C/FP	Fort Monmouth, NJ	Mar 05	Jan 06	134	48	Yes		
<b>Cannon Tube Assemblies</b>										
FY 2005	Watervliet Arsenal Watervliet, NY	WR/FP	Picatinny, NJ	Dec 04	Dec 05	554	15	Yes		
<b>M191 Bipods and 120mm Insert Forgings</b>										
FY 2005	Imperial Machine Tools Blairstown, NJ	SS/FP	Picatinny, NJ	Mar 05	Dec 05	134	35	Yes		
<b>120mm Baseplates</b>										
FY 2005	Savit Corporation Parsipanny, NJ	SS/FP	Picatinny, NJ	Jan 05	Dec 05	134	9	Yes		
<b>Mortar Wpns Systems Contract II (Supp)</b>										
FY 2005	General Dynamics, OTS St. Petersburg, Fla.	C/FP	Picatinny, NJ	Dec 05	Aug 06	173	101	Yes		
FY 2006	General Dynamics, OTS St. Petersburg, Fla.	C/Option	Picatinny, NJ	Dec 05	Jan 07	146	54	Yes		
<b>Basic Issue and Direct Support Items</b>										
FY 2005	Savit Corporation Parsipanny, NJ	C/FP	Picatinny, NJ	Jan 06	Aug 06	173	17	Yes		
FY 2006	Savit Corporation Parsipanny, NJ	C/Option	Picatinny, NJ	Jan 06	Feb 07	146	21	Yes		
<b>M67 Sight Units</b>										
FY 2005	Seiler Instruments St Louis, MO	C/Option	Rock Island, IL	Dec 04	Dec 05	173	3	Yes		
<b>M1101 Cargo Trailer</b>										
FY 2005	Silver Eagle Manufacturing Portland, OR	C/Option	Picatinny, NJ	Jan 05	Dec 05	221	8	Yes		
FY 2006	Silver Eagle Manufacturing Portland, OR	C/Option	Picatinny, NJ	Mar 06	Feb 07	116	10	Yes		
<b>120mm Breech Cap</b>										
FY 2005	Imperial Machine Tools Blairstown, NJ	SS/FP	Picatinny, NJ	Jan 05	Dec 05	260	2	Yes		

REMARKS:

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: Mortar Systems (G02200)								
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

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**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
Mortar Systems (G02200)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05										Fiscal Year 06										Later																						
							Calendar Year 05										Calendar Year 06																																
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S																		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E																		
Mortar Wpns Systems Contract I (Repr)																																																	
	5	FY 05	A	134	0	134													A														15	15	15	15	15	15	15	15	14	0							
Mortar Wpns Systems Contract II (Supp)																																																	
	8	FY 05 Supp	A	173	60	113																																	15	20	78								
	8	FY 05 Supp	A	173	113	60																																	8	15	37								
	8	FY 06	A	146	0	146																																			146								
	8	FY 05 Supp	MC	173	95	78																																		10	15	53							
Total																																																	
				799	268	531																																	15	15	15	15	15	15	15	48	64	314	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E																			
							T	V	C	N	B	R	P	Y	N	L	G	P	T	O	V	C	N	B	R	Y	N	L	G	P																			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		5	Computer Sciences Corporation, Falls Church, VA	5	20	30	0	5	Initial	6		6
						Reorder	3	6	10	16		
8	General Dynamics, OTS, St. Petersburg, Fla.	5	95	165	0	8	Initial	6	6	8	14	
							Reorder	3	6	6	12	
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
Mortar Systems (G02200)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07														Fiscal Year 08														Later
							Calendar Year 07														Calendar Year 08														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					
Mortar Wpns Systems Contract I (Repr)																																			
	5	FY 05	A	134	134																								0						
Mortar Wpns Systems Contract II (Supp)																																			
	8	FY 05 Supp	A	173	95	78	25	25	28																				0						
	8	FY 05 Supp	A	173	136	37	15	15	7																				0						
	8	FY 06	A	146	0	146				15	15	15	15	15	15	15	15	11											0						
	8	FY 05 Supp	MC	173	120	53	15	15	23																				0						
Total																																			
				799	485	314	55	55	58	15	15	15	15	15	15	15	15	11																	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
5	Computer Sciences Corporation, Falls Church, VA	5	20	30	0	5	Initial	6	6	10	16	
							Reorder	3	6	10	16	
8	General Dynamics, OTS, St. Petersburg, Fla.	5	95	165	0	8	Initial	6	6	8	14	
							Reorder	3	6	6	12	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M16 RIFLE (G14900)
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Program Elements for Code B Items:		Code: A		Other 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	26.7		7.9	1.8	1.9	1.9				40.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	26.7		7.9	1.8	1.9	1.9				40.2
Initial Spares										
Total Proc Cost	26.7		7.9	1.8	1.9	1.9				40.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
Roll up for the M16 Rifle family of weapons.

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

Appropriation / Budget Activity / Serial No:  
Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles

P-1 Item Nomenclature  
M16A4 RIFLE (G14912)

Program Elements for Code B Items:

Code:  
A

Other 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	26.7		7.9	1.8	1.9	1.9				40.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	26.7		7.9	1.8	1.9	1.9				40.2
Initial Spares										
Total Proc Cost	26.7		7.9	1.8	1.9	1.9				40.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M16A4 Rifle is a 5.56mm, gas-operated, magazine-fed weapon capable of firing either semiautomatic or three-round bursts. It is identical to the currently fielded M16A2 Rifle, with the exception that the upper receiver contains an integral mounting rail with a detachable carrying handle/rear sight. The M16A4 in combination with the M5 adapter rail forms the Modular Weapon System (MWS), which provides Soldiers the flexibility to configure their weapons with those accessories required to fulfill an assigned mission.

**Justification:**

FY2007 procures 2,950 M16A4 Rifles. The funding profile is required to procure additional M16A4 rifles for training. The M16A4 Rifle was developed as part of the Modular Weapons System (MWS) Program, which improves the versatility of the weapon by providing multiple mounting surfaces to allow a combination of various accessories to be used simultaneously. Production of the M16A4 Rifle commenced in 1998, replacing the M16A2 for all future Army requirements.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: M16A4 RIFLE (G14912)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			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		A				6989	14500	0.5	1527	2950	0.5
Engineering Support						616			186		
Engineering Change Proposals						87			19		
Integrated Logistics Support						50			38		
Fielding/Transportation						150			74		
<b>Total</b>						<b>7892</b>			<b>1844</b>		

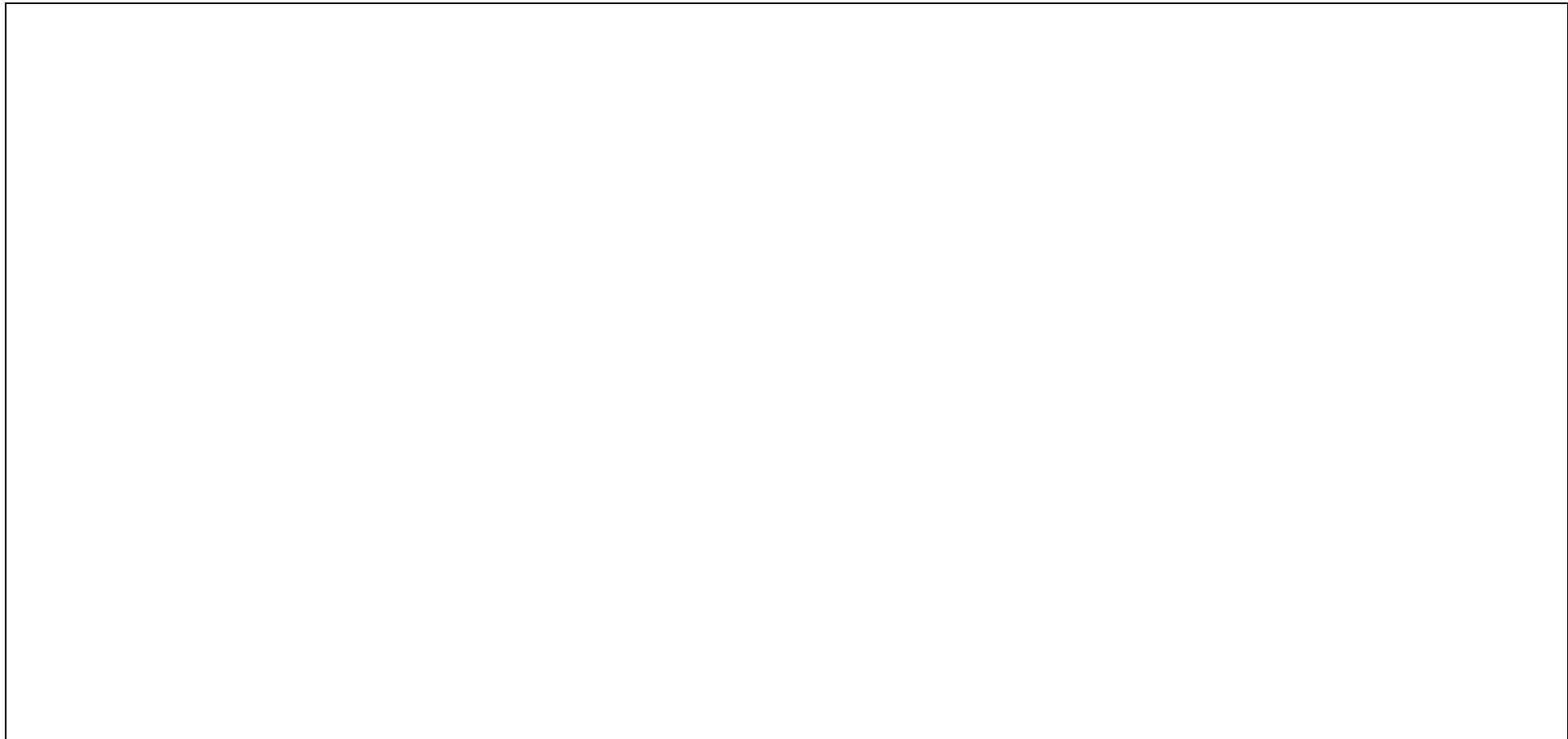
## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: M16A4 RIFLE (G14912)							
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
<b>Hardware</b>										
FY 2006	TBS TBS	C/FFP	TACOM-ROCK ISLAND, IL	Mar 06	Jul 07	14500	0.5	Yes		
FY 2007	TBS TBS	Option	TACOM-ROCK ISLAND, IL	Jan 07	Jul 08	2950	0.5	Yes		

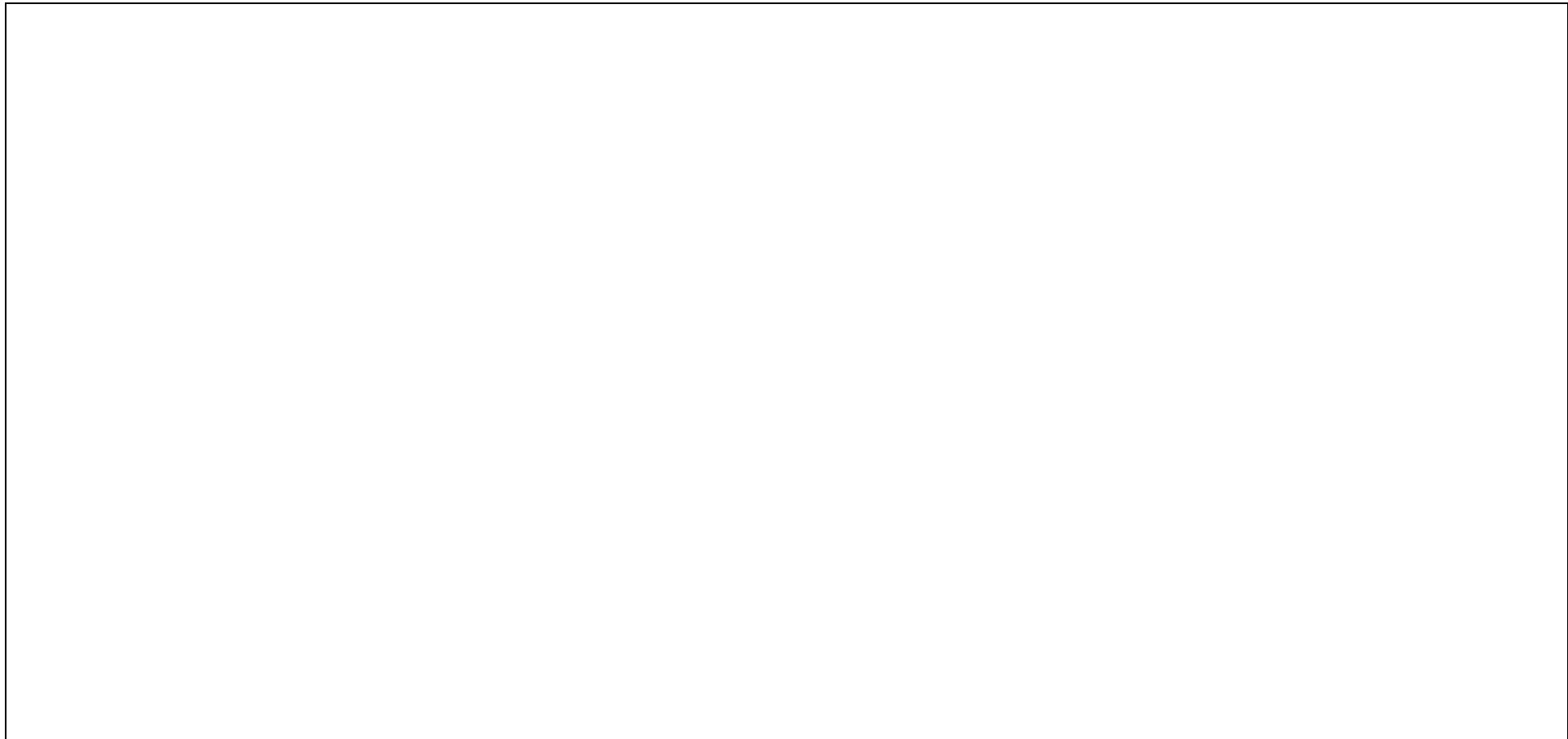
REMARKS:

FY 06 / 07 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE M16A4 RIFLE (G14912)										Date: February 2006													
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06										Fiscal Year 07										Later						
							Calendar Year 06										Calendar Year 07																
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E		
Hardware																																	
	1	FY 05 & PR	A	8624	6523	2101	700	700	701																		0						
	2	FY 06	A	14500	0	14500							A													250	500	750	13000				
	2	FY 07	A	2950	0	2950														A								2950					
	1	FY 05 & PR	FMS	11617	11617																							0					
	1	FY 05 & PR	MC	52678	52678																							0					
	2	FY 06	MC	7300	0	7300							A													250	500	750	5800				
	2	FY 07	MC	600	0	600														A								600					
	1	FY 05 & PR	OTH	571	317	254					254																	0					
Total				98840	71135	27705	700	700	701	254																500	1000	1500	22350				
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	U	U	E
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			



M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	FMNI (M16A4), Columbia, S.C.	8400	12000	38400	12	1	Initial	1	1	3	4	New Contract FY05/06. Timeframe - Jan 06 Seventeen months Production Lead Time for a new producer.
							Reorder	1	1	4	5	
2	TBS, TBS	8400	12000	38400	16	2	Initial	1	5	17	22	
							Reorder	1	3	7	10	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE M16A4 RIFLE (G14912)										Date: February 2006											
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08														Fiscal Year 09										Later
							Calendar Year 08														Calendar Year 09										
							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	
							Hardware																								
	1	FY 05 & PR	A	8624	8624																						0	0			
	2	FY 06	A	14500	1500	13000	1000	1000	1000	1000	1000	1200	2000	2000	2000	800												0			
	2	FY 07	A	2950	0	2950										600	2000	350										0			
	1	FY 05 & PR	FMS	11617	11617																							0			
	1	FY 05 & PR	MC	52678	52678																							0			
	2	FY 06	MC	7300	1500	5800	1000	1000	1000	1000	1000	800																0			
	2	FY 07	MC	600	0	600				A						600												0			
	1	FY 05 & PR	OTH	571	571																							0			
Total						98840	76490	22350	2000	2000	2000	2000	2000	2000	2000	2000	2000	350													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS Seventeen months Production Lead Time if New Contractor (Less with current producer)
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	FMNI (M16A4), Columbia, S.C.	8400	12000	38400	12	1	Initial	1	1	3	4	
							Reorder	1	1	4	5	
2	TBS, TBS	8400	12000	38400	16	2	Initial	1	5	17	22	
							Reorder	1	3	7	10	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M107, CAL. 50, SNIPER RIFLE (G01500)
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Program Elements for Code B Items:	Code: A	Other 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	1398	838	560	390						3186
Gross Cost	21.6	13.5	10.5	8.5	0.4	0.2	0.2	0.2		55.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	21.6	13.5	10.5	8.5	0.4	0.2	0.2	0.2		55.1
Initial Spares										
Total Proc Cost	21.6	13.5	10.5	8.5	0.4	0.2	0.2	0.2		55.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

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 site; 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 procures 390 M107 Sniper Weapons, plus spotter scopes being procured under 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).

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: M107, CAL. 50, SNIPER RIFLE (G01500)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware											
Weapons		A	8441	838	10.07	5700	560	10.18	4029	390	10.33
Laser Protection Filters & Anti-Reflect			127	238	0.53	343	560	0.61	252	390	0.65
Flash/Sound/Recoil Suppressors			298	238	1.25	1904	1523	1.25	1750	1435	1.22
GFM			41	238	0.17	118	560	0.21	75	390	0.19
Testing Hardware			19								
Maintenance Contract			112			110			110		
Shipping (GBL)			35			25			20		
Retrofit/Refurbishment of Urgent Release			720			379					
Rapid Fielding Initiative (Var. items)			826			191			191		
2. Engineering Support			1011			640			666		
3. STRICOM (MILES)			726			471			775		
5. Testing			222								
6. Integrated Logistical Support			175			192			175		
7. New Equipment Training			365			251			210		
8. Fielding			145			188			190		
9. ECPs						15			15		
10. Flash Suppressor Study			189								
<b>Total</b>			<b>13452</b>			<b>10527</b>			<b>8458</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

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
<b>Appropriation/Budget Activity/Serial No:</b> Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles										
		<b>Weapon System Type:</b>	<b>P-1 Line Item Nomenclature:</b> M107, CAL. 50, SNIPER RIFLE (G01500)							
<b>Weapons</b>										
FY 2005	Barrett Firearms Mfg. Murfreesboro, TN	Option	TACOM, Picatinny, NJ	DEC 04	AUG 05	838	10.07			
FY 2006	Barrett Firearms Mfg. Murfreesboro, TN	Option	TACOM, Picatinny, NJ	FEB 06	MAY 06	328	10.07	YES		
FY 2006	Barrett Firearms Mfg. Murfreesboro, TN	SS/FFP	TACOM, Picatinny, NJ	MAY 06	NOV 06	232	10.33	YES		
FY 2007	Barrett Firearms Mfg. Murfreesboro, TN	Option	TACOM, Picatinny, NJ	DEC 06	APR 07	390	10.33	YES		
<b>Laser Protection Filters &amp; Anti-Reflect</b>										
FY 2005	Tenebraex Boston, MA	SS/FFP	TACOM, Picatinny, NJ	JUN 05	JUL 05	238	0.53			
FY 2006	Tenebraex Boston, MA	Option	TACOM, Picatinny, NJ	DEC 05	JUN 06	560	0.61	YES		
FY 2007	Tenebraex Boston, MA	Option	TACOM, Picatinny, NJ	DEC 06	JUN 07	390	0.65	YES		
<b>Flash/Sound/Recoil Suppressors</b>										
FY 2005	TBS	C/FFP	TACOM, Picatinny, NJ	FEB 06	JUN 06	238	1.25			
FY 2006	TBS	Option	TACOM, Picatinny, NJ	MAR 06	JUN 06	1523	1.25	YES		
FY 2007	TBS	Option	TACOM, Picatinny, NJ	DEC 06	FEB 07	1435	1.22	YES		

REMARKS:

**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
M107, CAL. 50, SNIPER RIFLE (G01500)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06														Fiscal Year 07										Later
							Calendar Year 06														Calendar Year 07										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Weapons																															
	1	FY 05	A	838	185	653	100	100	100	100	100	100	100	53															0		
	1	FY 06	A	560	0	560									50	50	50	50	50	50	50	50	50	50	50	10			0		
	1	FY 07	A	390	0	390															A				90	100	100	100		0	
Total																															
				1788	185	1603	100	100	100	100	100	100	53	50	50	50	50	50	50	50	50	50	50	50	50	100	100	100	100		
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																															

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct			After 1 Oct				
		1	Barrett Firearms Mfg., Murfreesboro, TN	300	600	1200	0	1	Initial	3	7	
							Reorder	3	2	4	6	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS) (G01505)
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Program Elements for Code B Items:		Code: A		Other 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				15.3	15.0	15.0	15.0	15.0		75.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				15.3	15.0	15.0	15.0	15.0		75.3
Initial Spares										
Total Proc Cost				15.3	15.0	15.0	15.0	15.0		75.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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 procures 1,150 M110 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.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS) (G01505)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>1. Hardware</b>		A									
Weapons									11495	1150	10
External Mount Assembly (EMA) and Anti Reflections Devices (ARD)									575	1150	1
Spotting Scope									1610	1150	1
Test Ammunition									22		
Maintenance & Repair									200		
Shipping (GBL)									98		
2. Engineering Support									630		
3. STRICOM (MILES)									180		
4. Testing									100		
5. Integrated Logistics Support								125			
6. New Equipment Training								175			
7. Fielding								70			
8. ECP's								20			
<b>Total</b>								<b>15300</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS) (G01505)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Weapons</b> FY 2007	Knights Armaments Co. Titusville, FL	OTHER	TACOM, Picatinny	Nov 06	Mar 07	1150	10	YES		
<b>Anti Reflections Devices (ARD)</b> FY 2007	TBS	C/FFP	TACOM - RI	Nov 06	Feb 07	1150	1	YES		
<b>Spotting Scope</b> FY 2007	TBS	C/FFP	TACOM, Picatinny	Jan 07	Apr 07	1150	1	YES		

REMARKS: FY07 is an production option on R&D contract with Knights Armaments Co.

**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
XM110 SEMI-AUTOMATIC SNIPER SYSTEM (SASS) (G01505)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07														Fiscal Year 08												Later
							Calendar Year 07														Calendar Year 08												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	C		
Weapons																																	
	1	FY 07	A	1150	0	1150		A					50	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0					
Total																																	
				1150		1150							50	100	100	100	100	100	100	100	100	100	100	100	100	100							

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	1			Prior 1 Oct	After 1 Oct			
					Initial							
1	Knights Armaments Co., Titusville, FL	1200	2400	4800	0	1	Initial	3	1	5	6	
							Reorder	3	1	5	6	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M4 Carbine (G14904)
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Program Elements for Code B Items:	Code: A	Other 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	136350	59136	45200	1475						242161
Gross Cost	90.2	65.1	66.2	2.2						223.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	90.2	65.1	66.2	2.2						223.7
Initial Spares										
Total Proc Cost	90.2	65.1	66.2	2.2						223.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The M4 Carbine is a 5.56mm, gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and has continued to replace all M3A1 WWII era .45 Cal Submachine guns, select 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 and featuring a collapsible stock, it achieves over 85% commonality with the M16A4 Rifle.

**Justification:**  
FY2007 procures 1,475 M4 Carbines. The M4 Carbine provides soldiers with a small, lightweight weapon that can provide better self-protection and additional firepower in close quarters.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: M4 Carbine (G14904)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
		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
1. Hardware		A	60458	59136	1.2	64800	45200	1.4	2130	1475	1.4
2. Engineering Support			2385			847			61		
3. Integrated Logistics Support			390			200			15		
4. Fielding/Transportation			480			325			15		
5. Engineering Studies			100								
6. Engineering Services											
7. Reliability Test			1300								
<b>Total</b>			<b>65113</b>			<b>66172</b>			<b>2221</b>		

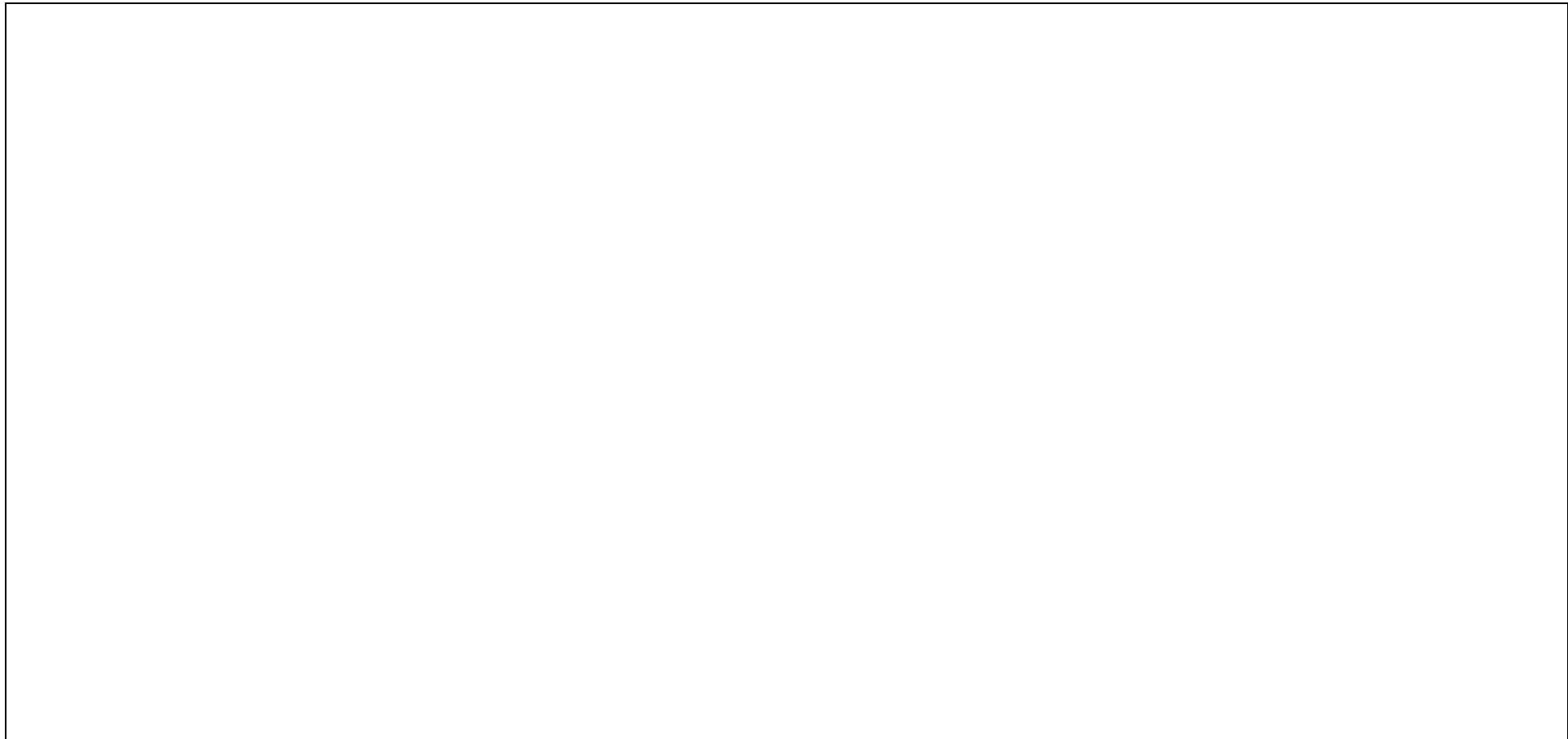
## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: M4 Carbine (G14904)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. Hardware</b>										
FY 2005	Colt's Mfg Co. Inc Hartford, CT	Option	TACOM-Rock Island Arsenal, IL	Oct 04	Nov 04	59136	1.2			
FY 2005	Colt's Mfg Co. Inc Hartford, CT	Option	TACOM-Rock Island Arsenal	Aug 05	Oct 05	59136	1.2			
FY 2006	Colt's Mfg Co. Inc Hartford, CT	Option	TACOM-Rock Island Arsenal, IL	Mar 06	Oct 06	45200	1.4	Yes		
FY 2007	Colt's Mfg Co. Inc Hartford, CT	Option	TACOM-Rock Island Arsenal	Jan 07	Oct 07	1475	1.4	Yes		

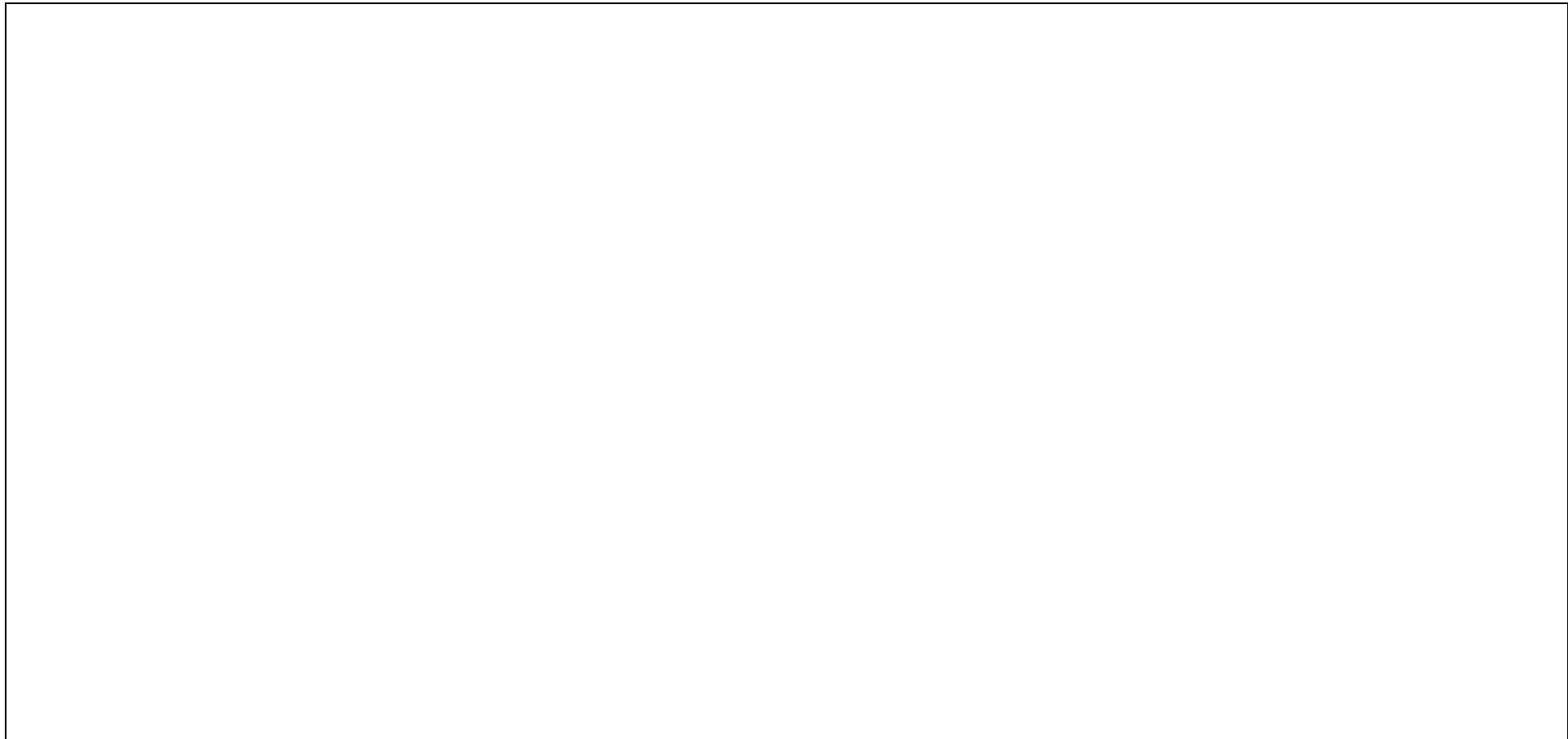
REMARKS: The Technical Data Package (TDP) Specifications were modified to incorporate the Modular Weapon System rails and Back-up Iron Sight as part of the M4 Carbine configurations. The additional accessories will increase the unit cost.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE M4 Carbine (G14904)										Date: February 2006											
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06										Fiscal Year 07										Later				
							Calendar Year 06										Calendar Year 07														
							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
							1. Hardware																								
	1	FY 05 & PR	A	16413	13891	2522	2522																						0		
	1	FY 05	A	50881	6996	43885		1500		3000	4000	4000	4000	6000	6000	6000	6000	3385											0		
	1	FY 06	A	45200	0	45200					A								3750	3750	3750	3750	3750	3750	3750	3750	3750	200			
	1	FY 07	A	1475	0	1475															A							1475			
	1	FY 05 & PR	AF	25869	21270	4599			1000	667		892	1000	1000	40													0			
	1	FY 06	AF	762	0	762													200	200	200	162						0			
	1	FY 05 & PR	AR	3125	0	3125				621	460	500	544	500	500													0			
	1	FY 05 & PR	MC	7870	4889	2981		290					737	1000	954													0			
	1	FY 06	MC	6363	0	6363													2000	2000	2363							0			
	1	FY 05 & PR	NG	13736	0	13736						1000	1400	2006	1400							1772	2540	3000	618			0			
	1	FY 05 & PR	OTH	7754	728	7026		375		520	579		13	102	1000	299		38						826		1000		1000	1000	274	
	1	FY 06	OTH	150	0	150													150									0			
Total																															
				179598	47774	131824	2522	2165	1000	4187	5200	5352	6500	9694	9648	9854	6299	5385	6138	6313	3950	3912	5522	7116	6750	5368	3750	4750	3750	4750	1949
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P



M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Colt's Mfg Co. Inc, Hartford, CT	12000	36000	120000	18	1	Initial	5	3	10	13	Colt's present production is 6,000 per month on M4 Carbines which required a cessation of commercial deliveries. Production in 2006 will increase by adding a second shift to meet Supplemental requirements. The sustainable max. production rate can be increased to 10 thousand a month with a guarantee of continued production. Other orders received could impact planned schedules.
							Reorder	3	3	10	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	Colt's Mfg Co. Inc, Hartford, CT	12000	36000	120000	18	1	Initial	5	3	10	13	
							Reorder	3	3	10	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature SHOTGUN, MODULAR ACCESSORY SYSTEM (MASS) (G18300)
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Program Elements for Code B Items: 0604713A - Combat Feeding, Clothing, and Equipment	Code: B	Other 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			4.9							4.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			4.9							4.9
Initial Spares										
Total Proc Cost			4.9							4.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The Modular Accessory Shotgun System (MASS) is a 12 gauge shotgun that attaches underneath the barrel of the M4 Carbine, M16 Rifle, and variants of the Objective Individual Combat Weapon (Carbine and Designated Marksman). 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 gage rounds. The weapon system can be zeroed to the sighting system of the host weapon for improved accuracy.

**Justification:**  
FY 2007 has no funding at this time.



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature Common Remotely Operated Weapons Station (CROWS) (G04700)
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Program Elements for Code B Items:		Code: A	Other 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		259	286							545
Gross Cost		90.3	75.0							165.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		90.3	75.0							165.3
Initial Spares										
Total Proc Cost		90.3	75.0							165.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The Common Remotely Operated Weapon Station (CROWS) is a mount that provides the capability to remotely operate all standard 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 has no funding at this time.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: Common Remotely Operated Weapons Station (CROWS) (G04700)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>HARDWARE</b>											
CROWS system		A	65260	259	252	64350	286	225			
Vehicle Integration Kit			2237	259	9	1181	286	4			
Trainers			316			577					
Engineering Support			1592			2004					
Integrated Logistics Support			1082			2060					
Total Package Fielding			3157			1500					
Production Verification Test			673			381					
First Destination Transportation			122			60					
Contractor Field Service Representatives			7724			2000					
Spares/Repair Parts			5585			887					
New Equipment Training			2464								
Product Improvements			49								
<b>Total</b>			<b>90261</b>			<b>75000</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: Common Remotely Operated Weapons Station (CROWS) (G04700)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>CROWS system</b>										
FY 2005	Recon Optical Inc (ROI) Barrington, IL	SS/FFP	TACOM, Picatinny, NJ	DEC 04	DEC 04	27	252			
FY 2005	Recon Optical Inc (ROI) Barrington, IL	SS/FFP	TACOM, Picatinny, NJ	JUL 05	JUL 05	232	252			
FY 2006	Recon Optical Inc (ROI) Barrington, IL	SS/FFP	TACOM, Picatinny, NJ	FEB 06	SEP 06	286	225	YES		
<b>Vehicle Integration Kit</b>										
FY 2005	Ogara Hess & Eisenhard Armor, CO	SS/FFP	TACOM, Picatinny, NJ	DEC 04	DEC 04	27	9			
FY 2005	Ogara Hess & Eisenhard Armor, CO	SS/FFP	TACOM, Picatinny, NJ	MAR 05	JUL 05	232	9			
FY 2006	TBS	C/FFP	TACOM, Picatinny, NJ	FEB 06	SEP 06	286	4	YES		

REMARKS: Prior to Type Classification, permission to procure Common Remotely Operated Weapon Station (CROWS) was based on a G3 validated Operational Needs Statement for overseas operations.

**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
Common Remotely Operated Weapons Station (CROWS) (G04700)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06										Fiscal Year 07										Later				
							Calendar Year 06										Calendar Year 07														
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E
CROWS system																															
	1	FY 05	A	259	54	205	10	15	53	25	25	15	15	15	15	2												0			
	1	FY 06	A	286	0	286					A						13	15	15	15	15	15	15	15	15	15	15	93			
Total				545	54	491	10	15	53	25	25	15	15	15	15	2	13	15	15	15	15	15	15	15	15	15	15	93			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	Recon Optical Inc (ROI), Barrington, IL	120			396	1200			
						Reorder	2	3	7	10	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
Common Remotely Operated Weapons Station (CROWS) (G04700)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09												Later
							Calendar Year 08												Calendar Year 09												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
CROWS system																															
	1	FY 05	A	259	259																								0		
	1	FY 06	A	286	193	93	15	15	15	15	15	15	3																0		
Total																															
				545	452	93	15	15	15	15	15	15	3																		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	1			Initial	Reorder			
1	Recon Optical Inc (ROI), Barrington, IL	120	396	1200	0	1	Initial	2	4	8	12	
							Reorder	2	3	7	10	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature HOWITZER LT WT 155MM (T) (G01700)
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Program Elements for Code B Items: 0604854A	Code: B	Other 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		16	19	85	126				40	286
Gross Cost	9.0	37.0	47.5	187.5	267.6	7.0			92.0	647.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	9.0	37.0	47.5	187.5	267.6	7.0			92.0	647.7
Initial Spares										
Total Proc Cost	9.0	37.0	47.5	187.5	267.6	7.0			92.0	647.7
Flyaway U/C										
Weapon System Proc U/C		2.3	2.5	2.2	2.1				2.3	2.3

**Description:**

The Lightweight 155mm Towed Howitzer (LW155) is a Joint USMC/Army Program. A 40% reduction in weight compared to the current system allows for greater strategic and tactical mobility while improving range, weapon stability, accuracy, and durability. Significantly improved battlefield mobility creates a weapon that is more survivable and lethal. The LW155 has a digital fire control system but retains conventional fire control as a backup. The digital fire control enables the LW155 Howitzer to emplace faster and without survey, aiming posts or an aiming circle. Digital communications and an on-board antenna eliminate the need for wire to the Fire Direction Center and increases dispersion and survivability on the battlefield. Modifications to the existing prime mover enable the howitzer unit to navigate, recharge the system and receive fire missions, all while moving to the next firing position.

The PM is working closely with PM Excalibur to incorporate Excalibur precision Global Positioning System/Inertial Navigation Unit (GPS/INU) guided 155mm projectile compatibility by 4QFY06. Excalibur will provide precision strike capability (10 meter accuracy) out to ranges of 40 kilometers.

FY05-08 Full Rate Production contract is a joint multiyear procurement with the USMC.

**Justification:**

FY 2007 procures 85 Lightweight 155mm Towed Howitzers (LW155). This quantity and the Army's overall procurement of LW155s are a joint multi-year procurement with the United States Marine Corps for FY05-FY08. LW155 replaces the M198 Towed Howitzer for the U.S. Army and USMC. The LW155 must be procured in FY07 to continue replacing the aging, heavier M198 howitzer. The LW155 is the cannon fire support for the Army's Stryker Brigade Combat Teams (SBCT). The United Kingdom and Italy participated in the development of the LW155 under an MOU and the UK has signed a production MOU with the US.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: HOWITZER LT WT 155MM (T) (G01700)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
WVA Cannon Long Lead			874	19	46	3910	85	46	5796	126	46
BAE Lightweight 155mm Howitzer			26816	16	1676	32300	19	1700	144500	85	1700
Watervliet Arsenal Cannon			3280	16	205	3895	19	205	17425	85	205
Primer Feed Mechanism			288	16	18	342	19	18	1530	85	18
Optical Fire Control			640	16	40	760	19	40	3400	85	40
Basic Initial Issue			200			228			2150		
Watervliet Arsenal Facilitization											
System Engineering / Program Management			4239			4966			8288		
Test			200			500			2100		
Fielding			500			600			2300		
<b>Total</b>			<b>37037</b>			<b>47501</b>			<b>187489</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles	Weapon System Type:	P-1 Line Item Nomenclature: HOWITZER LT WT 155MM (T) (G01700)									
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
<b>WVA Cannon Long Lead</b>											
FY 2005	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 05	Mar 06	19	46				
FY 2006	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 06	Mar 07	85	46				
FY 2007	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 07	Mar 08	126	46				
<b>BAE Lightweight 155mm Howitzer</b>											
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Mar 05	Apr 06	16	1676				
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK					19	1700				
FY 2007	BAE SYSTEMS Barrow-in-Furness, UK					85	1700				
<b>Watervliet Arsenal Cannon</b>											
FY 2005	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 05	Mar 06	16	205				
FY 2006	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 06	Mar 07	19	205				
FY 2007	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 07	Mar 08	85	205				
<b>Primer Feed Mechanism</b>											
FY 2005	HTD Hartford, CT	MYP/FFP	Picatinny Arsenal, NJ	Mar 05	Mar 06	16	18				
FY 2006	HTD Hartford, CT					19	18				
FY 2007	HTD Hartford, CT					85	18				
<b>Optical Fire Control</b>											
FY 2005	Seiler St. Louis, MO	MYP/FFP	Picatinny Arsenal, NJ	Nov '05	Mar '06	16	40				
FY 2006	Seiler St. Louis, MO					19	40				
FY 2007	Seiler St. Louis, MO					85	40				



## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: HOWITZER LT WT 155MM (T) (G01700)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date

REMARKS:



**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
HOWITZER LT WT 155MM (T) (G01700)

Date: February 2006

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07												Later	
							Calendar Year 06												Calendar Year 07													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E		
Lightweight 155mm Towed Howitzer (LW155)																																
	1	FY 05	A	16	0	16								3	2	3	3	4	1										0			
	1	FY 06	A	19	0	19													3	5	4	4	3						0			
	1	FY 07	A	85	0	85															1	4	4	4	5	5	6	6	44			
	1	FY 08	A	126	0	126																						126				
LW155 (USMC - For Information Only)																																
	1	FY 05	MC	106	0	106								5	6	6	6	6	6	6	6	7	7	8	8	8	9	8	8	2		0
	1	FY 06	MC	75	0	75																							6	8	8	53
	1	FY 07	MC	34	0	34																										34
	1	FY 08	MC	47	0	47																										47
Total																																
				508		508								8	8	9	9	10	10	11	11	11	12	12	12	13	13	13	14	14	14	304
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E		
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	BAE SYSTEMS, Barrow-in-Furness, UK	8	14	14	0	1	Initial	0	2	12	14	
							Reorder	0	0	12	12	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE HOWITZER LT WT 155MM (T) (G01700)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08														Fiscal Year 09										Later
							Calendar Year 08														Calendar Year 09										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Lightweight 155mm Towed Howitzer (LW155)																															
	1	FY 05	A	16	16																							0			
	1	FY 06	A	19	19																							0			
	1	FY 07	A	85	41	44	6	6	6	6	6	7	7															0			
	1	FY 08	A	126	0	126							7	7	7	7	7	7	7	7	7	7	7	7	7	11	14	14	10	0	
LW155 (USMC - For Information Only)																															
	1	FY 05	MC	106	106																							0			
	1	FY 06	MC	75	22	53	8	8	8	8	8	7	6															0			
	1	FY 07	MC	34	0	34						1	7	7	7	7	5											0			
	1	FY 08	MC	47	0	47										2	7	7	7	7	7	7	7	3				0			
Total																															
				508	204	304	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	10			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX	1			Initial	Prior 1 Oct				
									After 1 Oct				After 1 Oct
1	BAE SYSTEMS, Barrow-in-Furness, UK	8	14	14	0	1	Initial	0	2	12	14		
							Reorder	0	0	12	12		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE HOWITZER LT WT 155MM (T) (G01700)	Date: February 2006
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10														Fiscal Year 11										Later
							Calendar Year 10														Calendar Year 11										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Lightweight 155mm Towed Howitzer (LW155)																															
	1	FY 05	A	16	16																							0			
	1	FY 06	A	19	19																							0			
	1	FY 07	A	85	85																							0			
	1	FY 08	A	126	126																							0			
LW155 (USMC - For Information Only)																															
	1	FY 05	MC	106	106																							0			
	1	FY 06	MC	75	75																							0			
	1	FY 07	MC	34	34																							0			
	1	FY 08	MC	47	47																							0			
Total																															
				508	508																										

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	1			Initial	Reorder			
1	BAE SYSTEMS, Barrow-in-Furness, UK	8	14	14	0		0	2	12	14		
							0	0	12	12		

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature MK-19 Grenade Machine Gun MODS (GB3000)
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Program Elements for Code B Items:	Code:	Other 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	12.9	4.2	5.4	3.2	6.3	7.7	8.4	8.6		56.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	12.9	4.2	5.4	3.2	6.3	7.7	8.4	8.6		56.7
Initial Spares										
Total Proc Cost	12.9	4.2	5.4	3.2	6.3	7.7	8.4	8.6		56.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The MK-19 Mod 3 is a self-powered, air-cooled, 40mm automatic grenade machine gun capable of a firing rate of 325-375 rounds per minute. It is used to engage point targets up to 1500 meters and provide suppressive fire at ranges up to 2200 meters. Since the initial fielding of the MK-19, various system enhancements have been identified that further improve the system by increasing operational capabilities and improving reliability, readiness, maintainability, and safety. These improvements include a lightweight adjustable sight bracket; a weapon-sight bracket interface; improved firing pin sear with modified firing pin; an adjustable secondary drive lever; and, a new start Tactical Engagement Simulator (TES) to support Force-on-Force Training.

**Justification:**  
FY 2007 procures the Lightweight Adjustable Sight Bracket and the MK-19 TES. The MK-19 will be mounted on various vehicles and on the M3 tripod for ground mounted applications. It will replace select M2 .50 Cal and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. The adjustable sight bracket will provide a means of mounting light accessories (laser pointer/designator, combat ID, optics) on the MK-19. When attached to the MK-19, the sight base will provide a mounting interface for various fire control and night vision devices. The improved firing pin sear with modified firing pin will increase the parts life of the sear. The adjustable secondary drive lever improves maintainability and readiness of the MK-19 by lowering the level of maintenance and ease of feed slide adjustment. The TES provides Army units with the ability to realistically "train as they fight" by simulating force-on-force engagements in order to improve the user's effectiveness with this weapon system.

<b>Exhibit P-40M, Budget Item Justification Sheet</b>											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles						P-1 Item Nomenclature MK-19 Grenade Machine Gun MODS (GB3000)						
Program Elements for Code B Items:								Code:		Other Related Program Elements:		
Description			Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total	
Modification Kit												
TBD1		8.7	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.9	
Tactical Engagement Simulator (TES)												
TBD2		0.0	1.2	3.6	2.8	6.0	7.6	8.4	8.6	0.0	38.2	
Lightweight Adjustable Sight Bracket												
TBD3		4.2	1.4	1.2	0.4	0.3	0.1	0.0	0.0	0.0	7.6	
Totals		12.9	4.2	5.4	3.2	6.3	7.7	8.4	8.6	0.0	56.7	

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Modification Kit [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: MK-19 Grenade Machine Gun

**DESCRIPTION / JUSTIFICATION:**

The sight base when attached to the MK-19 will provide a mounting interface for various fire control and night vision devices. The improved firing pin sear w/ modified firing pin will increase the parts life of the sear. The adjustable secondary drive lever improves maintainability and readiness of the MK-19 by lowering the level of maintenance and ease of feed slide adjustment.

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

Production Contract Award 4Q00 (Actual)  
 First Production Delivered 3Q02 (Actual)  
 First Unit Equipped 4Q02 (Actual)

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0																			
Outputs	0																			

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				0
Outputs																				

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months

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

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



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Modification Kit [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Kit Quantity	18657																			18657		
Installation Kits	0																					
Installation Kits, Nonrecurring	0																					
Hardware	0	4.5																			4.5	
--	0																					
Engineering Support	0	1.6		0.8		0.2															2.6	
Testing	0																					
Integrated Logistics Supprt	0	0.8		0.3		0.1															1.2	
Fielding	0	1.8		0.5		0.3															2.6	
--	0																					
--	0																					
<b>Installation of Hardware</b>	0																					
FY2004 & Prior Equip -- Kits	13322		2668		2667																18657	
FY2005 Equip -- Kits	0																					
FY2006 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	13322	0.0	2668	0.0	2667	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18657	0.0
Total Procurement Cost		8.7		1.6		0.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		10.9

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Tactical Engagement Simulator (TES) [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: MK-19 Grenade Machine Gun

**DESCRIPTION / JUSTIFICATION:**

Tactical Engagement Simulator (TES)

The TES is a non-line of sight device which simulates the ballistic characteristics of the MK-19 GMG. It serves as a training device to provide realistic training during force-on-force engagements.

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

Production Contract Award 2Q05 (Actual)

First Production Delivered 3Q06 (Planned)

First Unit Equipped 1Q07 (Planned)

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals	0																			
Inputs																				
Outputs																				

Pr Yr	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months

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

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

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Tactical Engagement Simulator (TES) [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>	0																				
<b>Procurement</b>	0																				
Kit Quantity	0		48		335		217		488		624		650		644					3006	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Hardware	0			0.5		3.2		2.3		4.9		6.6		7.1		7.2					31.8
--	0																				
Engineering Support	0			0.6		0.2		0.3		0.6		0.6		0.8		0.9					4.0
Testing	0					0.0					0.0										
Integrated Logistical Support	0			0.1		0.1		0.1		0.3		0.2		0.2		0.2					1.2
Fielding	0					0.1		0.1		0.2		0.2		0.3		0.3					1.2
Other	0																				
Interim Contractor Support	0																				
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip -- Kits	0																				
FY2005 Equip -- Kits	0				48																48
FY2006 Equip -- Kits	0						335														335
FY2007 Equip -- Kits	0							217													217
FY2008 Equip -- Kits	0								488												488
FY2009 Equip -- Kits	0										624										624
FY2010 Equip - Kits	0												650								650
FY2011 Equip - Kits	0														644						644
FY2012 Equip - Kits	0																				
Total Installment	0	0.0	0	0.0	48	0.0	335	0.0	217	0.0	488	0.0	624	0.0	650	0.0	644	0.0	3006	0.0	
Total Procurement Cost		0.0		1.2		3.6		2.8		6.0		7.6		8.4		8.6		0.0			38.2

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Lightweight Adjustable Sight Bracket [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED: MK-19 Grenade Machine Gun

**DESCRIPTION / JUSTIFICATION:**

The light adjustable sight bracket will provide a means of mounting light accessories (laser pointer/designator, combat ID, optics) on the MK-19. The sight bracket adjusts to allow the accessory to maintain a line of sight to the target out to max range while the weapon is elevated to engage targets.

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

Production Contract Award 4Q01 (Actual)

First Production Delivered 3Q03 (Actual)

First Unit Equipped 4Q04 (Actual)

**Installation Schedule**

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs	0																				

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Lightweight Adjustable Sight Bracket [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RDT&amp;E</b>	0																			
<b>Procurement</b>	0																			
Kit Quantity	7897		1620		1481		408		277											11683
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Hardware	0	3.0		0.8		0.8		0.2		0.1										4.9
--	0																			
Engineering Support	0	0.7		0.2		0.2		0.1		0.1										1.3
Testing	0																			
Integrated logistical Support	0	0.3		0.1		0.1		0.0		0.0										0.5
Fielding	0	0.2		0.3		0.1		0.1		0.1		0.1								0.9
--	0																			
--	0																			
<b>Installation of Hardware</b>	0																			
FY2004 & Prior Equip -- Kits	952		2335		2400		2145		65											7897
FY2005 Equip -- Kits	0						255		1365											1620
FY2006 Equip -- Kits	0								919		562									1481
FY2007 Equip -- Kits	0									408										408
FY2008 Equip -- Kits	0									277										277
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	952	0.0	2335	0.0	2400	0.0	2400	0.0	2349	0.0	1247	0.0	0	0.0	0	0.0	0	0.0	11683	0.0
Total Procurement Cost		4.2		1.4		1.2		0.4		0.3		0.1		0.0		0.0		0.0		7.6

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M4 CARBINE MODS (GB3007)
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Program Elements for Code B Items:	Code:	Other 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	131.6	87.9	89.6	30.9	13.7	6.1	13.5	9.4		382.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	131.6	87.9	89.6	30.9	13.7	6.1	13.5	9.4		382.7
Initial Spares										
Total Proc Cost	131.6	87.9	89.6	30.9	13.7	6.1	13.5	9.4		382.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The M4 Carbine Modification Program provides a Close Combat Optic, an improved buttstock, and a Modular Weapon Suite. The Modular Weapon Suite 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 procures M4 Modular Weapon Systems (MWS), Close Quarters Battle Kit, 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 permanent iron sight provides a back-up capability in the event it becomes immediately necessary. 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 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. 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 close combat optic, improved combat optics, tactical weapon lights, bipods, forward grips, cleaning kits, improved buttstocks, and slings.

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006		
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles						P-1 Item Nomenclature M4 CARBINE MODS (GB3007)							
Program Elements for Code B Items:								Code:		Other Related Program Elements:			
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													
TBD1	Operational	37.7	7.1	3.5	4.2	3.5	0.2	0.0	0.0	0.0	56.2		
Close Combat Optic													
TBD2	Operational	15.6	0.0	12.4	0.6	0.0	0.0	0.0	0.0	0.0	28.6		
Close Quarters Battle Kit													
TBD3	Operational	0.0	0.0	5.2	5.3	5.2	3.6	6.8	5.3	0.0	31.4		
Closed Mods													
TBD4		2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5		
Rapid Fielding Initiative													
TBD5	Operational	75.8	80.8	68.5	18.8	3.0	0.3	0.3	0.1	0.0	247.6		
Combat Optics													
TBD6	Operational	0.0	0.0	0.0	2.0	2.0	2.0	6.4	4.0	0.0	16.4		
Totals		131.6	87.9	89.6	30.9	13.7	6.1	13.5	9.4	0.0	382.7		

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 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 4Q97 (Actual)  
 First Production Hardware Delivered 4Q98 (Actual)  
 First Unit Equipped 2Q99 (Actual)

Installation Schedule

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs																				

1	2	3	4	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																					0
Outputs																					

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -



**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
<b>RDT&amp;E</b>	0																					
<b>Procurement</b>	0																					
Quantity (Rail Systems Only)	84240																0		84240			
Quantity (Other Components)	41235		33000		20000		13000		13000								0		120235			
Installation Kits, Nonrecurring	0																					
Hardware	0	33.3		5.5		2.8		2.9		2.3											46.8	
Equipment, Nonrecurring	0																					
Engineering Support	0	2.3		0.7		0.5		0.7		0.7		0.1									5.0	
Testing	0																					
Integrated Logistical Support	0	0.7		0.5		0.1		0.3		0.3											1.9	
Fielding	0	1.0		0.4		0.1		0.2		0.2		0.1									2.0	
Engineering Study	0	0.4						0.1													0.5	
Interim Contractor Support	0																					
<b>Installation of Hardware</b>	0																					
FY2004& Prior Equip -- Kits	82210		2030																		84240	
FY2004& Prior Other Equip -- Kits	0		41235																		41235	
FY2005 Other Equip -- Kits	0				33000																33000	
FY2006 Other Equip -- Kits	0						20000														20000	
FY2007 Other Equip -- Kits	0								13000												13000	
FY2008 Other Equip -- Kits	0										13000										13000	
<b>Total Installment</b>	82210	0.0	43265	0.0	33000	0.0	20000	0.0	13000	0.0	13000	0.0	0	0.0	0	0.0	0	0.0	0	0.0	204475	0.0
<b>Total Procurement Cost</b>		37.7		7.1		3.5		4.2		3.5		0.2		0.0		0.0		0.0		0.0		56.2

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Close Combat Optic [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

DESCRIPTION / JUSTIFICATION:  
 The Close Combat Optic will be installed on the M4 Carbine. 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.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):  
 Developmental/Operational Tests 1Q/2Q96 (Actual)  
 Type Classification (LRIP) 4Q96 (Actual)  
 Production Contract Award 4Q96 (Actual)  
 First Production Hardware Delivered 1Q97 (Actual)  
 First Unit Equipped 2Q98 (Actual)

Installation Schedule

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0																			
Outputs	0																			

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RDT&amp;E</b>	0																			
<b>Procurement</b>	0																			
Quantity	62929				45200		1475											0		109604
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Hardware	0	14.2				12.2		0.4												26.8
Equipment, Nonrecurring	0																			
Engineering Support	0	0.8				0.1		0.1												1.0
Testing	0	0.2																		0.2
Integrated Logistical Support	0	0.2																		0.2
Fielding	0	0.2				0.1		0.1												0.4
Other	0																			
Interim Contractor Support	0																			
<b>Installation of Hardware</b>	0																			
FY2004 & Prior Equip -- Kits	62929																			62929
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits					45200															45200
FY2007 Equip -- Kits							1475													1475
Total Installment	62929	0.0	0	0.0	45200	0.0	1475	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	109604	0.0
Total Procurement Cost		15.6		0.0		12.4		0.6		0.0		0.0		0.0		0.0		0.0		28.6

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 the Soldier 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 Tests 4Q05/3Q06 (Plan)  
 MS C Decision 3Q06 (Plan)  
 Production Contract Award 4Q06 (Plan)  
 First Unit Equipped 1Q07 (Plan)

Installation Schedule

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
		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				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						0
Outputs																						

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

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

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

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Kit Quantity					10000		10000		10000		6200		13800		10000		0		60000		
Hardware						4.6		4.6		4.6		3.0		6.2		4.6					27.6
Engineering Support						0.3		0.3		0.2		0.2		0.2		0.3					1.5
Integrated Logistic Support						0.2		0.2		0.2		0.2		0.2		0.2					1.2
Fielding						0.1		0.1		0.1		0.1		0.1		0.1					0.6
Engineering Study								0.1		0.1		0.1		0.1		0.1					0.5
<b>Installation of Hardware</b>																					
FY 2004 & Prior Equip -- Kits																					
FY 2005 Equip-- Kits																					
FY 2006 Equip -- Kits							10000														10000
FY 2007 Equip -- Kits									10000												10000
FY 2008 Equip -- Kits										10000											10000
FY 2009 Equip -- Kits													6200								6200
FY 2010 Equip -- Kits													3800		10000						13800
FY 2011 Equip -- Kits																	10000				10000
TC Equip- Kits																					
Total Installment	0	0.0	0	0.0	0	0.0	10000	0.0	10000	0.0	10000	0.0	10000	0.0	10000	0.0	10000	0.0	60000	0.0	
Total Procurement Cost		0.0		0.0		5.2		5.3		5.2		3.6		6.8		5.3		0.0			31.4

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 5] TBD5

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

**DESCRIPTION / JUSTIFICATION:**

In support of the Global War on Terrorism, the Rapid Fielding Initiative (RFI) provides deploying Soldiers with new equipment to upgrade existing equipment or replace worn-out equipment. RFI provides funds to procure and support, items such as close combat optics, magnified optics, tactical weapon lights, bipods, forward grips, cleaning kits, improved buttstocks and slings.

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

**Installation Schedule**

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0																			
Outputs	0																			

FY 2010	FY 2011				FY 2012				FY 2013				To Complete	Totals							
	1	2	3	4	1	2	3	4	1	2	3	4									
Inputs																					0
Outputs																					

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates: FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RDT&amp;E</b>	0																			
<b>Procurement</b>	0																			
Multiple Items	0	64.8		67.8		62.1		17.0		2.2		0.3		0.3		0.1				214.6
Engineering Support	0	10.4		9.9		2.8		0.8		0.3		0.0		0.0		0.0				24.2
Testing	0																			
Integrated Logistic Support	0			1.3		0.6		0.2		0.1		0.0		0.0		0.0				2.2
Fielding	0	0.1		1.3		0.6		0.2		0.1		0.0		0.0		0.0				2.3
Engineering Study	0	0.1																		0.1
Interim Contractor Support	0	0.4		0.5		2.4		0.6		0.3		0.0		0.0		0.0				4.2
<b>Installation of Hardware</b>	0																			
FY2004 & Prior Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
FY2011 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		75.8		80.8		68.5		18.8		3.0		0.3		0.3		0.1		0.0		247.6

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Combat Optics [MOD 6] TBD6

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

**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 Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
		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				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						0
Outputs																						

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

0 months

**PRODUCTION LEADTIME:**

0 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -



**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Combat Optics [MOD 6] TBD6

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity							2360		2360		2360		7600		4700				19380	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware								1.7	1.7		1.7		5.5		3.4					14.0
Equipment, Nonrecurring																				
Engineering Support							0.1		0.1		0.1		0.3		0.2					0.8
Intergrated Logistical Support							0.1		0.1		0.1		0.3		0.2					0.8
Total Package Fielding							0.1		0.1		0.1		0.3		0.2					0.8
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits									2360											2360
FY 2008 Equip -- Kits											2360									2360
FY 2009 Equip -- Kits													2360							2360
FY 2010 Equip -- Kits															7600					7600
FY 2011 Equip -- Kits																	4700			4700
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	2360	0.0	2360	0.0	2360	0.0	7600	0.0	4700	0.0	19380	0.0
Total Procurement Cost		0.0		0.0		0.0		2.0		2.0		2.0		6.4		4.0		0.0		16.4

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M2 50 Cal Machine Gun MODS (GB4000)
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Program Elements for Code B Items: 604601A S63	Code: B	Other Related Program Elements: 604802A AS1								
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost			4.4							4.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			4.4							4.4
Initial Spares										
Total Proc Cost			4.4							4.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The M2E2 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) allow movement of the weapon with a chambered round. The M2E2 QCB Kit will be added to the current M2 on a one for one basis.

**Justification:**  
FY 2007 has no funding at this time.

<b>Exhibit P-40M, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M2 50 Cal Machine Gun MODS (GB4000)
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Program Elements for Code B Items: 604601A S63	Code: B	Other Related Program Elements: 604802A AS1
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Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
M2E2 QUICK CHANGE BARREL KIT											
TBD1	Operational	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Totals		0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	4.4

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: M2E2 QUICK CHANGE BARREL KIT [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The M2E2 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 and to allow movement of the weapon with a chambered round.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

User Assessment 3Q05 (Actual)  
 Engineering Change Proposal (ECP) Approval 3Q06 (Planned)  
 First Unit Equipped 2Q07 (Planned)

Installation Schedule

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
		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				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						0
Outputs																						

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates: FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): M2E2 QUICK CHANGE BARREL KIT [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<b>RDT&amp;E</b>																				
<b>Procurement</b>																					
Kit Quantity					480															480	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware						3.1															3.1
Test Ammo						0.1															0.1
Engineering Support						0.4															0.4
Tesing						0.4															0.4
Integrated Logistics Support						0.1															0.1
Fielding						0.1															0.1
Spares						0.2															0.2
Interim Contractor Support																					
<b>Installation of Hardware</b>																					
FY 2004 & Prior Equip -- Kits																					
FY 2005 -- Kits																					
FY 2006 Equip -- Kits							480													480	
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	480	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	480	0.0	
Total Procurement Cost		0.0		0.0		4.4		0.0		0.0		0.0		0.0		0.0		0.0		4.4	

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M249 SAW Machine Gun MODS (GZ1290)
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Program Elements for Code B Items:	Code:	Other 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	43.6	19.7	7.6	5.3	9.4	4.2	5.1	3.2		97.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	43.6	19.7	7.6	5.3	9.4	4.2	5.1	3.2		97.9
Initial Spares										
Total Proc Cost	43.6	19.7	7.6	5.3	9.4	4.2	5.1	3.2		97.9
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 procures Improved Bipods, Improved Collapsible Buttstocks, Light Weight Ground Mounts and improved combat optics (RFI). The Improved Bipod is stronger than the existing bipod, allows the Soldier better adjustability and is compatible with the accessory rail kit. The Improved Collapsible Buttstock provides the Soldier improved ergonomics resulting in greater target acquisition. The M192 Light Weight Ground Mount, which weighs 11.4 pounds, will reduce the Soldier's combat load weight by 6.4 pounds. 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. The improved combat optic (FY07 New Start RFI) will provide the Soldier with an improved capability to identify and engage targets at long ranges.

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006		
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles						P-1 Item Nomenclature M249 SAW Machine Gun MODS (GZ1290)							
Program Elements for Code B Items:								Code:		Other Related Program Elements:			
Description		Fiscal Years											
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total		
M249 Rails/Bipod/Handguard													
TBD1	Operational	10.2	3.5	0.8	1.4	1.7	1.7	1.3	0.9	0.0	21.5		
M249 Short Barrel/Coll Buttstock/Heatshield													
TBD2	Operational	10.5	0.5	6.3	1.3	1.2	0.9	0.8	1.1	0.0	22.6		
Light Weight Ground Mount													
TBD3	Operational	3.0	4.1	0.0	2.2	6.1	1.6	3.0	1.2	0.0	21.2		
Rapid Fielding Initiative													
TBD4	Operational	11.3	11.6	0.5	0.4	0.4	0.0	0.0	0.0	0.0	24.2		
Closed Mods													
TBD6		8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6		
Totals		43.6	19.7	7.6	5.3	9.4	4.2	5.1	3.2	0.0	98.1		

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

**Installation Schedule**

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs																				

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				0
Outputs																				

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

0 months

**PRODUCTION LEADTIME:** 0 months

Contract Dates: FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates: FY 2006 -

FY 2007 -

FY 2008 -



**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Quantity (Various Components)	146521		37279		17000		10000		11875		11500		8500		5740					248415	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		8.1		2.9		0.7		1.1		1.3		1.3		1.0		0.7					17.1
Equipment, Nonrecurring																					
Engineering Support		1.4		0.6		0.1		0.2		0.3		0.3		0.2		0.1					3.2
Testing																					
Integrated Logistical Support		0.4		0.0		0.0		0.1		0.1		0.1		0.1		0.1					0.9
Fielding		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0					0.3
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip -- Kits	108084		38437																		146521
FY2005 Equip -- Kits					20000		17279														37279
FY2006 Equip -- Kits					10000		7000														17000
FY2007 Equip -- Kits							5000		5000												10000
FY2008 Equip -- Kits									5875		6000										11875
FY2009 Equip -- Kits											5500		6000								11500
FY2010 Equip -- Kits													6000		2500						8500
FY2011 Equip -- Kits															5740						5740
TC Equip- Kits																					
Total Installment	108084	0.0	38437	0.0	30000	0.0	29279	0.0	10875	0.0	11500	0.0	12000	0.0	8240	0.0	0	0.0		248415	0.0
Total Procurement Cost		10.2		3.5		0.8		1.4		1.7		1.7		1.3		0.9		0.0			21.5

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 M249MG 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**

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs																				

1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	To Complete	Totals
Inputs																	0
Outputs																	

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

0 months

**PRODUCTION LEADTIME:**

0 months

Contract Dates:           FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:           FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Quantity (Various Components)	21143		862		16689		1240		1100		800		700		1000					43534	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		9.3		0.4		5.9		0.9		0.7		0.5		0.4		0.7					18.8
Equipment, Nonrecurring																					
Engineering Support		0.8		0.1		0.2		0.2		0.3		0.3		0.3		0.3					2.5
Testing																					
Integrated Logistical Support		0.2				0.1		0.1		0.1		0.1		0.1		0.1					0.8
Fielding		0.2				0.1		0.1		0.1		0.0		0.0		0.0					0.5
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip -- Kits	8482		900		11761																21143
FY2005 Equip -- Kits					862																862
FY2006 Equip -- Kits					4215		5274		7200												16689
FY2007 Equip -- Kits							640		600												1240
FY2008 Equip -- Kits									600		500										1100
FY2009 Equip -- Kits										800											800
FY2010 Equip -- Kits													700								700
FY2011 Equip -- Kits															1000						1000
TC Equip- Kits																					
Total Installment	8482	0.0	900	0.0	16838	0.0	5914	0.0	8400	0.0	1300	0.0	700	0.0	1000	0.0	0	0.0		43534	0.0
Total Procurement Cost		10.5		0.5		6.3		1.3		1.2		0.9		0.8		1.1		0.0			22.6

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 3Q03 (Actual)  
 Type Classification (LRP) 2Q04 (Actual)  
 Production Contract Award 2Q04 (Actual)  
 First Production Hardware Delivered 2Q05 (Actual)  
 First Unit Equipped 3Q05 (Actual)

Installation Schedule

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals	0																			
Inputs																				
Outputs																				

FY 2010	FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs														0
Outputs														

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Quantity	1072		570				900		3000		678		1300		400					7920	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		2.4		3.6				1.6		5.4		1.2		2.4		0.8					17.4
Equipment, Nonrecurring																					
Engineering Support		0.3		0.5				0.4		0.5		0.3		0.4		0.3					2.7
Testing		0.1																			0.1
Integrated Logistical Support		0.1		0.0				0.1		0.1		0.0		0.1		0.1					0.5
Fielding		0.1		0.0				0.1		0.1		0.1		0.1		0.0					0.5
New Equipment Training				0.0				0.0		0.0		0.0		0.0		0.0					
Interim Contractor Support																					
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip -- Kits			1072																		1072
FY2005 Equip -- Kits					570																570
FY2006 Equip -- Kits																					
FY2007 Equip -- Kits							230		670												900
FY2008 Equip -- Kits									730		1400		870								3000
FY2009 Equip -- Kits												530			148						678
FY2010 Equip -- Kits															1252		48				1300
FY2011 Equip -- Kits																400					400
TC Equip- Kits																					
Total Installment	0	0.0	1072	0.0	570	0.0	230	0.0	1400	0.0	1400	0.0	1400	0.0	1400	0.0	448	0.0		7920	0.0
Total Procurement Cost		3.0		4.1		0.0		2.2		6.1		1.6		3.0		1.2		0.0			21.2

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 4] TBD4

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

This funds the following items under the Rapid Fielding Initiative: Pistol Grips, Rail Covers, Accessory Rail Kits, Ammo Packs, Short Barrels, Short Barrel Blank Firing Attachments, Collapsible Buttstocks 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
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					0
Outputs																					

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Quantity (Various Components)			54009		885		400		400										55694	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		8.9		10.2		0.4		0.3		0.3										20.1
Equipment, Nonrecurring																				
Engineering Support		1.6		1.2		0.1		0.1		0.1										3.1
Testing				0.2																0.2
Integrated Logistical Support		0.3				0.0		0.0		0.0										0.3
Fielding		0.2																		0.2
Other - Engineering Study		0.3																		0.3
Interim Contractor Support																				
<b>Installation of Hardware</b>		0																		
FY2004 & Prior Equip -- Kits																				
FY2005 Equip -- Kits			4479		49530															54009
FY2006 Equip -- Kits					885															885
FY2007 Equip -- Kits							400													400
FY2008 Equip -- Kits									400											400
FY2009 Equip -- Kits																				
FY2010 Equip -- Kits																				
FY2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	4479	0.0	50415	0.0	400	0.0	400	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		11.3		11.6		0.5		0.4		0.4		0.0		0.0		0.0		0.0		24.2

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M240 Medium Machine Gun MODS (GZ1300)
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Program Elements for Code B Items:	Code: A	Other 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	17.8	15.6	16.0	5.3	14.1		4.3	3.6		76.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	17.8	15.6	16.0	5.3	14.1		4.3	3.6		76.6
Initial Spares										
Total Proc Cost	17.8	15.6	16.0	5.3	14.1		4.3	3.6		76.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M240B Medium Machine Gun will replace 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 procures M192 Light Weight Ground Mounts for the M240B Medium Machine Gun. System enhancements have been identified by fielded units to further improve the reliability of this weapon system. The M192 Light Weight Ground Mount, which weighs 11.4 pounds, will reduce the Soldier's combat load weight by 6.4 pounds. 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 enable gunners to construct a range data card.



<b>Exhibit P-40M, Budget Item Justification Sheet</b>											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles						P-1 Item Nomenclature M240 Medium Machine Gun MODS (GZ1300)						
Program Elements for Code B Items:								Code: A		Other Related Program Elements:		
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 Improvements												
TBD1		1.2	0.9	3.0	0.0	1.5	0.0	0.0	0.0	0.0	6.6	
M192 Light Weight Ground Mount												
TBD2		3.0	12.4	12.8	5.1	12.4	0.0	4.3	3.6	0.0	53.6	
Rapid Fielding Initiative												
TBD3		5.4	2.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	8.3	
Closed Mods												
NA		8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	
Totals		17.8	15.6	16.0	5.3	14.1	0.0	4.3	3.6	0.0	76.7	

**INDIVIDUAL MODIFICATION**

Date: February 2006

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 improves 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)

**Installation Schedule**

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs																				

1	2	3	4	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																					0
Outputs																					

**METHOD OF IMPLEMENTATION:**      Field Application      **ADMINISTRATIVE LEADTIME:**      0 months      **PRODUCTION LEADTIME:**      0 months  
 Contract Dates:                              FY 2006 -    FY 2007 -    FY 2008 -  
 Delivery Dates:                                FY 2006 -    FY 2007 -    FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	<b>RDT&amp;E</b>																					
<b>Procurement</b>																						
Quantity	5350		10550		8600				12500											37000		
Installation Kits																						
Installation Kits, Nonrecurring																						
Hardware		0.7		0.8		2.6				0.9											5.0	
Equipment, Nonrecurring																						
Engineering Support		0.2		0.1		0.2				0.3											0.8	
Testing																						
Integrated Logistical Support						0.1				0.2											0.3	
Fielding		0.3				0.1				0.1											0.5	
Other																						
Interim Contractor Support																						
<b>Installation of Hardware</b>	0																					
FY2004 & Prior Equip	5350																				5350	
FY2005 Equip			550		10000																10550	
FY2006 Equip							8600														8600	
FY2007 Equip																						
FY2008 Equip									8000		4500										12500	
FY2009 Equip																						
FY2010 Equip																						
FY2011 Equip																						
TC Equip																						
Total Installment	5350	0.0	550	0.0	10000	0.0	8600	0.0	8000	0.0	4500	0.0	0	0.0	0	0.0	0	0.0	0	0.0	37000	0.0
Total Procurement Cost		1.2		0.9		3.0		0.0		1.5		0.0		0.0		0.0		0.0		0.0		6.6

**INDIVIDUAL MODIFICATION**

Date: February 2006

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      3Q-4Q FY03 (Actual)  
 Type Classification (STD)            2Q FY04 (Actual)  
 Production Contract Award          2Q FY04 (Actual)  
 First Production Hardware Delivered   2Q FY05 (Actual)  
 First Unit Equipped                  3Q FY05 (Actual)

Installation Schedule

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs																				

FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																				0
Outputs																				

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates:                      FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:                      FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Quantity	842		8457		7016		2550		6581				1628		1488					28562	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		1.9		11.7		11.6		4.4		11.6				3.1		3.0					47.3
Equipment, Nonrecurring																					
Engineering Support		0.8		0.4		0.8		0.4		0.3				0.7		0.4					3.8
Testing		0.1																			0.1
Integrated Logistical Support		0.1		0.1		0.1		0.1		0.1				0.1		0.1					0.7
Fielding		0.1		0.1		0.1		0.1		0.2				0.1		0.1					0.8
New Equipment Training				0.1		0.1		0.1		0.1				0.1		0.0					0.5
Studies						0.1				0.1				0.2							0.4
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip			842																		842
FY2005 Equip					2420		4674		1363												8457
FY2006 Equip							1326		5690												7016
FY2007 Equip									447		2103										2550
FY2008 Equip											5397		1184								6581
FY2009 Equip																					
FY2010 Equip															1628						1628
FY2011 Equip																	1488				1488
TC Equip																					
Total Installment	0	0.0	842	0.0	2420	0.0	6000	0.0	7500	0.0	7500	0.0	1184	0.0	1628	0.0	1488	0.0	28562	0.0	
Total Procurement Cost		3.0		12.4		12.8		5.1		12.4		0.0		4.3		3.6		0.0			53.6

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

This funds the following items under the Rapid Fielding Initiative: M122A1 Tripods, M122A1 Tripod Adapters, M240B Forward Rail Kits, M192 Light Weight Ground Mounts, M240 Light Weight Short Barrels, M240 Spare Barrel Bags.

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	
Inputs	0																					
Outputs																						

Pr Yr	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4							
Inputs																							0
Outputs																							

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates: FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Quantity (Various Components)			1380		122		118		114										1734	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		4.1		2.1		0.2		0.2		0.2										6.8
Engineering Support		0.8		0.2		0.0		0.0		0.0										1.0
Integrated Logistical Support		0.1																		0.1
Fielding																				
Testing		0.2																		0.2
Studies		0.2																		0.2
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>	0																			
FY2004 & Prior Equip					1380															1380
FY2005 Equip							122													122
FY2006 Equip									118											118
FY2007 Equip											114									114
FY2008 Equip																				
FY2009 Equip																				
FY2010 Equip																				
FY2011 Equip																				
TC Equip																				
Total Installment	0	0.0	0	0.0	1380	0.0	122	0.0	118	0.0	114	0.0	0	0.0	0	0.0	0	0.0	1734	0.0
Total Procurement Cost		5.4		2.3		0.2		0.2		0.2		0.0		0.0		0.0		0.0		8.3

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature PHALANX MODS (GL1000)
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Program Elements for Code B Items:	Code:	Other 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		19.5	36.9							56.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		19.5	36.9							56.4
Initial Spares										
Total Proc Cost		19.5	36.9							56.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The Counter-Rocket, Artillery and Mortar (C-RAM) program is a spiral initiative Non-Developmental program initiated by the Army Chief of Staff in response to an enemy threat and twice validated ONS to address the threat, mortar attacks on Forward Operating Bases (FOB). The C-RAM program has 7 tenets: Command and Control (C2), Sense, Warn, Intercept, Shape, Respond and Protect. The C-RAM program is a system-of-systems that integrates currently fielded multiservice systems and Commercial Off the Shelf (COTS) hardware. Development is limited to minor hardware and software modifications required to make the various systems operate together. The current Intercept capability is provided by Land Based Phalanx Weapon Systems (LPWS) (a Navy Phalanx gun system mounted on a trailer). Congressionally directed FY05 supplemental funding and reprogrammed funds procured four LPWS for the initial FOB in FY05. The LPWS are provided by the Navy and modified by the Army.

**Justification:**  
FY 2007 has no funding

FY06 WCTV funding procures, fields, provides spares and training and provides in-theater support for the four additional modified LPWS; two for the initial FOB (IFOB), and two for FOB 2.



<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		P-1 Line Item Nomenclature: PHALANX MODS (GL1000)			Weapon System Type:		Date: February 2006			
	<b>WTCV Cost Elements</b>		ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>	
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
1. System Integration/ Hardware			19120	2	9560	36516	4	9129			
2. Project Management Administration			380			384					
<b>Total</b>			<b>19500</b>			<b>36900</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:		P-1 Line Item Nomenclature: PHALANX MODS (GL1000)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. System Integration/ Hardware</b>										
FY 2005	Raytheon Tucson AZ	MIPR	Tucson AZ	Mar 05	Nov 05	2	9560	N	N/A	N/A
FY 2006	Raytheon Tucson AZ	MIPR	Tucson AZ	Feb 06	Dec 05	4	9129	N	N/A	N/A

REMARKS: Procured through MIPR to Navy PM Phalanx. FY 06 Funds used to payback US Navy for two systems in December 05.



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)
--	---

Program Elements for Code B Items:		Code:		Other 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	13	13								26
Gross Cost	20.0	0.8								20.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	20.0	0.8								20.8
Initial Spares										
Total Proc Cost	20.0	0.8								20.8
Flyaway U/C										
Weapon System Proc U/C	1.5	0.1								0.8

**Description:**  
This program supports the Howitzer Improvement Program and Enhancement (HIPE) for the 155mm, M198, Medium Towed Howitzer. The HIPE program encompasses two major modifications, Hydraulic Power Assist Kit (HyPAK) and Enhancement (on-board power pack and power distribution).

Howitzer modification is required to modernize current weapon systems. The M198 Howitzer must be modernized in order to perform its mission of general support for the light division and Stryker Brigade Combat Teams. The HIPE kits applied in this program fulfill this requirement. The HIPE will greatly enhance the tactical mobility, survivability, and responsiveness of the M198. These modernizations will ensure that the M198 will continue to be a force multiplier today and in the future.

**Justification:**  
FY 2007 no procurement.

Exhibit P-40M, Budget Item Justification Sheet										Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles					P-1 Item Nomenclature HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)						
Program Elements for Code B Items:								Code:	Other Related Program Elements:		
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Oil Transfer System											
0-00-00-0000		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
HyPAK											
TBD1 Block 1 Upgrade	Operational	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
Recirculation Kit											
0-00-00-0000		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Nitrogen Intensifier											
0-00-00-0000		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Enhancement											
0-00-00-0000		2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
SBCT Fieldings											
0-00-00-0000		0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Nitrogen Extraction Kit											
0-00-00-0000		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
New Mod											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Mod											
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		10.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M119 MODIFICATIONS (GC0401)
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Program Elements for Code B Items:	Code:	Other 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	32.6		1.0	0.7	1.8	1.0	1.0	1.1		39.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	32.6		1.0	0.7	1.8	1.0	1.0	1.1		39.1
Initial Spares										
Total Proc Cost	32.6		1.0	0.7	1.8	1.0	1.0	1.1		39.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
 The 105MM M119A1 Light Towed Howitzer was selected as the weapon of choice for the light forces because it was a nondevelopmental item (NDI) with growth potential for modernization needs. Beginning in FY 91, 425 M119A1 howitzers have been fielded. The Light Artillery System Improvement Plan (LASIP) modernization effort corrects known deficiencies, improves reliability, availability and maintainability (RAM), and provides minor operational enhancements. The LASIP Block II program completed the upgrade of 353 howitzers to M119A2. The program completed upgrade of all fielded howitzers and 6 reserve cycle floats to address system washouts.

**Justification:**  
 FY2007 procures modifications that address deficiencies identified in OIF/OEF and support continued operations for the Global War on Terrorism.

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M16 RIFLE MODS (GZ2800)
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Program Elements for Code B Items:		Code:		Other 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	97.3	20.5	11.5	1.0	3.9	1.0	3.6	3.6	0.0	142.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	97.3	20.5	11.5	1.0	3.9	1.0	3.6	3.6	0.0	142.3
Initial Spares										
Total Proc Cost	97.3	20.5	11.5	1.0	3.9	1.0	3.6	3.6	0.0	142.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The M16 Rifle Modifications Program provides a Close Combat Optic (CCO) 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 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.

In support of Operation Iraqi Freedom (OIF) and Operations 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 close combat optic, powered optics, tactical weapon lights, magazines, bipods, cleaning kits, and slings.

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2006		
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles						P-1 Item Nomenclature M16 RIFLE MODS (GZ2800)							
Program Elements for Code B Items:								Code:		Other Related Program Elements:			
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													
TBD1	Operational	21.3	2.6	2.0	0.9	0.9	0.9	0.9	0.9	0.0	30.4		
Closed Mods													
TBD2		41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8		
Rapid Fielding Initiative													
TBD3	Operational	34.2	17.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0	61.6		
Combat Optics													
TBD4	Operational	0.0	0.0	0.0	0.1	3.0	0.1	2.7	2.7	0.0	8.6		
Totals		97.3	20.5	11.5	1.0	3.9	1.0	3.6	3.6	0.0	142.4		



**INDIVIDUAL MODIFICATION**

Date: February 2006

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 allows 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 Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs																				

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				0
Outputs																				

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

0 months

**PRODUCTION LEADTIME:**

0 months

Contract Dates:                      FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:                      FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RDT&amp;E</b>	0																			
<b>Procurement</b>	0																			
Quantity (Rail Systems Only)	29333		9150		5963														44446	
Quantity (Other Components)	0						900		900		900		900		900				4500	
Installation Kits, Nonrecurring	0																			
Hardware	0	19.0		2.3		1.9		0.8		0.8		0.8		0.8		0.8				27.2
Equipment, Nonrecurring	0																			
Engineering Support	0	1.3		0.1		0.1		0.1		0.1		0.1		0.1		0.1				2.0
Testing	0	0.1																		0.1
Integrated Logistical Support	0	0.3		0.1		0.0		0.0		0.0		0.0		0.0		0.0				0.4
Fielding	0	0.5		0.1		0.0		0.0		0.0		0.0		0.0		0.0				0.6
Engineering Study	0	0.1																		0.1
Interim Contractor Support	0																			
<b>Installation of Hardware</b>	0																			
FY2004 & Prior Equip -- Kits	22138		7195																	29333
FY2005 Other Equip -- Kits	0				9150															9150
FY2006 Other Equip -- Kits	0						5963													5963
FY2007 Other Equip -- Kits	0								900											900
FY2008 Other Equip -- Kits	0										900									900
FY2009 Other Equip -- Kits	0												900							900
FY2010 Other Equip -- Kits	0														900					900
FY2011 Other Equip -- Kits	0																900			900
TC Other Equip- Kits	0																			
<b>Total Installment</b>	22138	0.0	7195	0.0	9150	0.0	5963	0.0	900	0.0	900	0.0	900	0.0	900	0.0	900	0.0	48946	0.0
<b>Total Procurement Cost</b>		21.3		2.6		2.0		0.9		0.9		0.9		0.9		0.9		0.0		30.4

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED: M16A2/M16A4 Rifle

**DESCRIPTION / JUSTIFICATION:**

In support of the Global War on Terrorism, the Rapid Fielding Initiative (RFI) provides deploying Soldiers with new equipment to upgrade existing equipment or replace worn-out equipment. RFI provides funds to procure and support items such as close combat optics, magnified optics, tactical weapon lights, bipods, cleaning kits and slings.

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

**Installation Schedule**

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

1	2	3	4	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals	
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Inputs																						
Outputs																						0

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<b>RDT&amp;E</b>																				
<b>Procurement</b>		32.1																			32.1
Multiple Items				15.7		8.3															24.0
Engineering Support		1.9		1.8		0.8															4.5
Testing																					
Intergrated Logistics Support		0.1		0.3		0.2															0.6
Fielding		0.1		0.1		0.2															0.4
Engineering Study																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>																					
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	0.0
Total Procurement Cost		34.2		17.9		9.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0	61.6

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Combat Optics [MOD 4] 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 Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																				
Outputs																				

1	2	3	4	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals									
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4											
Inputs																														
Outputs																														0

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

0 months

**PRODUCTION LEADTIME:**

0 months

Contract Dates:

FY 2006 -

FY 2007 -

FY 2008 -

Delivery Dates:

FY 2006 -

FY 2007 -

FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Combat Optics [MOD 4] TBD4

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<b>RDT&amp;E</b>																				
<b>Procurement</b>																					
Kit Quantity							100		3700				3300		3300					10400	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware								0.1	2.7				2.4		2.4						7.6
Equipment, Nonrecurring																					
Engineering Support									0.1		0.1		0.1		0.1						0.4
Testing																					
Intergrated Logistical Support									0.1		0.0		0.1		0.1						0.3
Total Package Fielding									0.1				0.1		0.1						0.3
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>																					
FY 2004 & Prior Equip -- Kits																					
FY 2005 -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits									100												100
FY 2008 Equip -- Kits											3700										3700
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits															3300						3300
FY 2011 Equip -- Kits																	3300				3300
TC Equip- Kits																					
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	100	0.0	3700	0.0	0	0.0	3300	0.0	3300	0.0	10400	0.0	
Total Procurement Cost		0.0		0.0		0.0		0.1		3.0		0.1		2.7		2.7		0.0			8.6

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)
--	--

Program Elements for Code B Items:	Code: A	Other 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	100.0	8.3	5.1	1.7	2.8	0.5	3.1	2.1		123.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	100.0	8.3	5.1	1.7	2.8	0.5	3.1	2.1		123.6
Initial Spares										
Total Proc Cost	100.0	8.3	5.1	1.7	2.8	0.5	3.1	2.1		123.6
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 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 procures M145 Machine Gun Optic Sights and 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.

<b>Exhibit P-40M, Budget Item Justification Sheet</b>											Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles						P-1 Item Nomenclature MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)						
Program Elements for Code B Items:								Code: A		Other Related Program Elements:		
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	11.2	3.2	4.9	1.5	2.6	0.5	3.1	2.1	0.0	29.1	
Rapid Fielding Initiative												
TBD2	Operational	15.3	5.1	0.2	0.2	0.2	0.0	0.0	0.0	0.0	21.0	
Closed Mods												
TBD3		73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5	
Totals		100.0	8.3	5.1	1.7	2.8	0.5	3.1	2.1	0.0	123.6	



**INDIVIDUAL MODIFICATION**

Date: February 2006

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 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.

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 4Q99 (Actual)  
 Type Classification (Standard) 1Q00 (Actual)  
 First Unit Equipped 2Q00 (Actual)

Installation Schedule

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs	0																			

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				0
Outputs																				

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

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

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Quantity	17112		4200		6003		1306		2645		422		2745		1733					36166	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		9.4		2.8		4.2		1.0		2.0		0.3		2.2		1.4					23.3
Equipment, Nonrecurring																					
Engineering Support		1.2		0.2		0.5		0.5		0.5		0.2		0.7		0.5					4.3
Testing		0.3		0.2		0.2															0.7
Integrated Logistical Support		0.1				0.0		0.0		0.1				0.1		0.1					0.4
Fielding		0.2												0.1		0.1					0.4
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip -- Kits	17112																				17112
FY2005 Equip -- Kits			4200																		4200
FY2006 Equip -- Kits					6003																6003
FY2007 Equip -- Kits							1306														1306
FY2008 Equip -- Kits									2645												2645
FY2009 Equip -- Kits										422											422
FY2010 Equip -- Kits													2745								2745
FY2011 Equip -- Kits															1733						1733
TC Equip- Kits																					
Total Installment	17112	0.0	4200	0.0	6003	0.0	1306	0.0	2645	0.0	422	0.0	2745	0.0	1733	0.0	0	0.0		36166	0.0
Total Procurement Cost		11.2		3.2		4.9		1.5		2.6		0.5		3.1		2.1		0.0			29.1

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M249 Squad Automatic Weapon (Short Barrel)

DESCRIPTION / JUSTIFICATION:  
This funds the M145 Machine Gun Optic and an improved combat optic under the Rapid Fielding Initiative.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																			
Outputs	0																			

1	2	3	4	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																					0
Outputs																					

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months  
 Contract Dates: FY 2006 - FY 2007 - FY 2008 -  
 Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

**INDIVIDUAL MODIFICATION**

Date: February 2006

MODIFICATION TITLE (cont): Rapid Fielding Initiative [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<b>RDT&amp;E</b>																					
<b>Procurement</b>																					
Quantity	20780		6418		226		191		179											27794	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		12.7		4.4		0.2		0.2		0.1											17.6
Equipment, Nonrecurring																					
Engineering Support		2.4		0.6																	3.0
Testing																					
Integrated Logistical Support		0.1				0.0		0.0		0.0											0.1
Fielding		0.1		0.1		0.0		0.0		0.1											0.3
Other																					
Interim Contractor Support																					
<b>Installation of Hardware</b>	0																				
FY2004 & Prior Equip -- Kits	20780																				20780
FY2005 Equip -- Kits			6418																		6418
FY2006 Equip -- Kits					226																226
FY2007 Equip -- Kits							191														191
FY2008 Equip -- Kits									179												179
FY2009 Equip -- Kits																					
FY2010 Equip -- Kits																					
FY2011 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	20780	0.0	6418	0.0	226	0.0	191	0.0	179	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27794	0.0	
Total Procurement Cost		15.3		5.1		0.2		0.2		0.2		0.0		0.0		0.0		0.0		0.0	21.0

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)
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Program Elements for Code B Items:		Code: A		Other 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									Continuing	Continuing
Gross Cost	82.6	8.2	0.5	0.5	0.5	0.5	0.5	0.6		93.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	82.6	8.2	0.5	0.5	0.5	0.5	0.5	0.6		93.9
Initial Spares										
Total Proc Cost	82.6	8.2	0.5	0.5	0.5	0.5	0.5	0.6		93.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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 procures items required to achieve and sustain levels of readiness to units providing maintenance support to all small arms, artillery, air defense, fire control, and Stryker organizations, and special weapons. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and Reserve Officer Training Corps (ROTC) units to perform combat and training missions. Auxiliary weapon mounts, mounting platforms, and adaptors increase force protection capabilities by providing added accessibility and field of fire for M240/M249 machine guns mounted to the door frame and / or the bed of the HMMWV. Small arms weapons are required to support Urgent Needs, Army Acquisition Objective shortages, field replacements, and training requirements. Small arms tool sets allow the unit to perform annual gauging for the M9 pistol, M203 Grenade Launchers, and M2 Machine Guns. The weapons will not be able to be fired if this annual gauging does not occur. The tool sets also give the ability of artillery units to perform maintenance on mortars and howitzers. Artillery units would not be able to replace barrels without this set. Small arms tool sets are being fielded to stand up Brigade Combat Teams (BCT's) and Stryker Brigade Combat Teams (SBCT's) that are currently without any tools to sustain or maintain their weapons.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			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. Shot Gun, 12 Gauge			4686	14818	0.3						
2. Shop Equip, Small Arms Repair, Shelter Mounted			242	5	48.4	104	2	52.0	67	1	67.0
3. Tool Set, Instrument and Fire Control											
4. Shop Set, Small Arms, Field Maint, PCS Set D											
5. Shop Set, Small Arms FM Basic									43	2	21.5
6. Tool Set Battalion Maint											
7. Tool Kit, Electronic Sys Maint											
8Aux Weapons Mounting Platforms, Adapter											
9. Eng/Log/Fld Spt of Accessory Wpns			2648			24			25		
10. Shop Equip, Artillery Repair											
11. Small Arms, Artillery Repair, FM											
12. Tool Set, Ammo, FM						137	4	34.3	144	4	36.0
13. Program Support											
14. XM320 40mm Grenade Launcher Module						217	91	2.4	228	93	2.5
16. M3 Tripod			668	736	0.9						
<b>Total</b>			<b>8244</b>			<b>482</b>			<b>507</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles	Weapon System Type:	P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. Shot Gun, 12 Gauge</b> FY 2005	OF Mossberg & Sons Inc. North Haven, CT	COTS/FFP	TACOM, ROCK ISLAND	MAR 05	MAY 05	14818	0.3			
<b>2. Shop Equip, Small Arms Repair,</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	5	48.4			
FY 2006	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	MAR 06	JUL 06	2	52.0	Y	N	
FY 2007	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 06	APR 07	1	67.0	Y	N	
<b>3. Tool Set, Instrument and Fire Control</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	0	0.0			
<b>5. Shop Set, Small Arms FM Basic</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	0	0.0			
FY 2007	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 06	DEC 07	2	21.5	Y	N	
<b>6. Tool Set Battalion Maint</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	0	0.0			
<b>7. Tool Kit, Electronic Sys Maint</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	0	0.0			
<b>10. Shop Equip, Artillery Repair</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	0	0.0			
<b>12. Tool Set, Ammo, FM</b> FY 2005	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 04	DEC 05	0	0.0			
FY 2006	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	MAR 06	MAR 07	4	34.3	Y	N	
FY 2007	Rock Island Arsenal Rock Island, IL	REQN/FP	TACOM, ROCK ISLAND	DEC 06	DEC 07	4	36.0	Y	N	
<b>14. XM320 40mm Grenade Launcher Module</b>										

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles	Weapon System Type:	P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2006	Heckler & Koch Defense Inc Sterling, VA	COTS/FFP	Picatinny, NJ	May 06	SEP 06	91	2.4	Y	N	
FY 2007	Heckler & Koch Defense Inc Sterling, VA	COTS/FFP	Picatinny, NJ	May 07	SEP 07	93	2.5	Y	N	
<b>16. M3 Tripod</b>										
FY 2005	Fraser Mfg Lexington, MI	OTHER*	TACOM, ROCK ISLAND	Sep 05	Dec 07	251	0.9	Y	N	
FY 2005	TBS	C/FFP	TACOM, ROCK ISLAND	Jun 06	Jun 07	485	0.9	Y	N	

REMARKS: \* Modification to C/FFP contract.



<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)
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Program Elements for Code B Items:		Code:		Other 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	313.9	5.2	6.4	6.3	6.5	6.6	7.2	6.2		358.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	313.9	5.2	6.4	6.3	6.5	6.6	7.2	6.2		358.3
Initial Spares										
Total Proc Cost	313.9	5.2	6.4	6.3	6.5	6.6	7.2	6.2		358.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Weapons and Tracked Combat Vehicles and their components. The program also provides for the preserving, storing and disposing for facilities and equipment that are either not required for current active production or are not needed by the Army. Provisioning of Industrial Facilities (PIF) occurs at Aberdeen Test Center, MD; White Sands Missile Range, NM; and Yuma Proving Grounds, AZ. The Layaway of Industrial Facilities (LIF) funding supports efforts at Rock Island, IL and Watervliet, NY arsenals.

The PIF program supports all transition paths, and the LIF program supports the Current transition path of the Army Transformation Campaign Plan (TCP).

**Justification:**  
FY07 procures funding for the PIF and LIF programs. The PIF funding will support upgrade and replacement of technically or economically obsolete production test instrumentation to ensure that complete and accurate test data is collected and that safety and environmental hazards are minimized. Benefits of this effort include increased test efficiencies and decreased costs and risks to Army program managers. The Layaway of Industrial Facilities effort preserves the Army's abilities to respond to increases in production capabilities while keeping active production costs down. The effort allows the Army to excess equipment no longer needed. Economies are derived from this effort that benefit the entire Army.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
		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
PIF			4613			4678			4202		
LIF			1535			1792			2067		
<b>Total</b>			<b>6148</b>			<b>6470</b>			<b>6269</b>		

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles  
 P-1 Item Nomenclature: PIF2 OMNIBUS (WOCV-WTCV) (GC2001)

Program Elements for Code B Items: Code: Other 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	253.6	3.7	4.6	4.3	4.4	4.4	4.8	3.8		283.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc Pl	253.6	3.7	4.6	4.3	4.4	4.4	4.8	3.8		283.6
Initial Spares										
Total Proc Cost	253.6	3.7	4.6	4.3	4.4	4.4	4.8	3.8		283.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
 This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace test facilities used in production testing of Weapons and Tracked Combat Vehicles and their components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment generally provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at Aberdeen Test Center (ATC), Aberdeen Proving Ground, MD; White Sands Missile Range (WSMR), NM and Yuma Proving Ground (YPG), Yuma, AZ. Note: funding in this program was increased in FY04-06 for development of a Transportability/Winch test capability at ATC which will provide a full transportability assessment of production combat vehicles essential for ensuring deployability of forces including lifting and tie down, automotive winch performance and endurance, center of gravity, vertical drop, suspension spring rate and rail impact.

**Justification:**  
 At ATC, FY 2007 procures high speed electronic cameras used in fire control system tests to enhance visual instrumentation recording and turnaround time of data to the customer; toxic fumes and particulate analysis instrumentation for the Fire Safety Test Enclosure, used in fire suppression and flammability testing to determine the effect of fire and fire suppression on the crew and environment; upgrade to the Light Armor Range Complex indoor and outdoor ballistic test ranges; instrumentation and instrumentation interfaces for testing on-board computers and micro-controllers in combat vehicles; on-board instrumentation required to assess fire control system performance; electronic Diagnostic Instrumentation used to troubleshoot, calibrate, set-up, and repair sensors and data acquisition equipment; upgrades to the Corrosion Test Facility used for accelerated corrosion testing and corrosion protection evaluation on combat and support vehicles; equipment to monitor range noise levels to ensure no encroachment upon the local community; and modernization of the transportability and winch test capabilities used to assess the mobility and deployability of combat vehicles. At WSMR, FY 2007 procures amplifiers, antennas and signal generators used to perform electromagnetic radiation effects testing which determines the susceptibility and vulnerability of weapon system electronic components exposed to Radio Frequency radiation, lightning, and electrostatic discharge; replacement Semiconductor Test Lab instrumentation used to test complex integrated circuits during radiation survivability/vulnerability tests; instrumentation and equipment to support nuclear survivability testing of stockpile electronic piece parts for combat vehicles at the WSMR Radiation Tolerance Assured Supply and Support Center; and upgrade of the Linear Accelerator (LINAC - a gamma radiation pulse simulator used in dose rate testing of production based electronic components) for fault diagnosis and to increase reliability and safety. At YPG, FY 2007 procures "standardized" common range instrumentation data acquisition systems (currently used on Abrams and Bradley vehicles) to access test data via the combat vehicles' 1553 data bus; high speed digital imaging camera for vehicle fire control testing that will follow a direct fire projectile's flight path in lieu of using many cameras lined along the flight path; high speed digital cameras for capturing test events; advanced instrumentation for fire control system testing; replacement analytical laboratory analyzers, laboratory equipment, computing equipment and software required for the Material Analysis Laboratory to conduct dust test sampling, propellant and explosive identification, unknown identification, mobile fumes analysis, vehicle crew member breathing air flow measurements, toxic fumes analysis, metal vapor and particulate analysis; upgrades

**Exhibit P-40, Budget Item Justification Sheet**

Date:

February 2006

Appropriation / Budget Activity / Serial No:

Procurement of W&amp;TCV, Army / 2 / Weapons and other combat vehicles

P-1 Item Nomenclature

PIF2 OMNIBUS (WOCV-WTCV) (GC2001)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

to the combat systems firing range that provides various radio controlled targets to test vehicle fire control systems and an acoustic target scoring system at Gun Position 15 for fire control system testing. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded it's economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2006

Appropriation / Budget Activity / Serial No:  
Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles

P-1 Item Nomenclature  
LAYAWAY OF INDUSTRIAL FACILITIES (GC2100)

Program Elements for Code B Items:

Code:

Other 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	60.3	1.5	1.8	2.1	2.1	2.2	2.3	2.4		74.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	60.3	1.5	1.8	2.1	2.1	2.2	2.3	2.4		74.7
Initial Spares										
Total Proc Cost	60.3	1.5	1.8	2.1	2.1	2.2	2.3	2.4		74.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line provides for the preserving, storing, decontamination and plant clearance requirements of industrial facilities and equipment that are no longer required to support current production at Watervliet and Rock Island Arsenals.

FY07 major project efforts support footprint reduction by excessing 10 machines and performing plant restoration on machine foundations, floors and vacated areas at Rock Island Arsenal. Work also includes layaway of manufacturing floor space in Building 220 at Rock Island Arsenal. Efforts at Watervliet Arsenal will consist of excessing 15 machines and performing plant restoration on required machine foundations, floors and vacated space.

**Justification:**

FY07 provides for continuation of execution of the footprint reduction efforts. Major weapons systems affected include the M109 Self-Propelled Howitzer, M198 Howitzer, M119 Howitzer, M1A1 Tank, and Lightweight 155mm Gun.

The execution of the footprint reduction programs allows the arsenals to be more efficient and reduce their operating costs. This results in lower costs for the weapon systems produced.

These efforts support support the Headquarters, U.S. Army Tank-Automotive Armaments Command's initiative to reduce Industrial Mobilization Capacity costs and unneeded infrastructure costs.

**Exhibit P-40C, Budget Item Justification Sheet**

Date: February 2006

Appropriation / Budget Activity / Serial No:  
Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles

P-1 Item Nomenclature  
LAYAWAY OF INDUSTRIAL FACILITIES (GC2100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

<u>Location</u>	<u>Project Title</u>	<u>Project</u>	<u>FY 05</u>	<u>FY 06</u>	<u>FY 07</u>
Rock Island Arsenal	Rock Island, Illinois Layaway of Industrial Facilities (LIF)	7667	1.315	0.852	1.341
Watervliet Arsenal	Watervliet, New York Layaway of Industrial Facilities (LIF)	7667	0.220	0.940	0.726
	Total		1.535	1.792	2.067

<b>Exhibit P-17, Layaway and/or Distribution</b>							Date: February 2006	
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles					P-1 Item Nomenclature LAYAWAY OF INDUSTRIAL FACILITIES (GC2100)			
Project: 7667	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Funding:	1.315	0.852	1.341	1.050	1.053	1.609	1.657	
<p>Title: Layaway of Industrial Facilities (LIF)</p> <p>Description: This Fiscal Year 2007 project provides for preserving/storing/disposing facilities/equipment in Bldg 208 no longer required. Funds will protect/preserve equipment/facilities no longer required for active production but retained for possible future replenishment production needs. Funds will cover packaging/crating/handling, and transportation (PCH&amp;T) costs for moving equipment to a disposal point or storage site, decontamination, environmental cleanup, and plant clearance requirements. Resources pay labor required to excess equipment/vacate facilities. Effort will excess 15 machines and perform plant restoration on machine foundations, floors and vacated areas. This is required in order to meet Army's direction to reduce the manufacturing facilities/rightsize to meet peacetime/emergency requirements. By reducing the manufacturing footprints, the Arsenal's manufacturing operations will be more efficient.</p>								
<b>Manufacturer (Name and Location)</b> Rock Island ArsenalRock Island, Illinois		<b>Production Lines being laid away (Include Location)</b> Areas in Building 208			<b>Production Ends</b> June 2007			
<b>Layaway Cost:</b> 1.341		<b>Other Costs:</b> 0.000			<b>Annual Maintenance Cost:</b> 0.000			
Project: 7667	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Funding:	0.220	0.940	0.726	1.062	1.103	0.734	0.766	
<p>Title: Layaway of Industrial Facilities (LIF)</p> <p>Description: The Fiscal Year 2007 effort will excess 13 machines and relocate 22 machines within Building 20 to facilitate manufacturing and prepare vacated area for a future machine relocation project. Project will also perform plant restoration on two machine foundations and restore floor areas of the excessed/relocated machines.</p>								
<b>Manufacturer (Name and Location)</b> Watervliet ArsenalWatervliet, New York		<b>Production Lines being laid away (Include Location)</b> Areas in Building 20			<b>Production Ends</b> September 2007			
<b>Layaway Cost:</b> 0.726		<b>Other Costs:</b> 0.000			<b>Annual Maintenance Cost:</b> 0.000			

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature INDUSTRIAL PREPAREDNESS (GC0075)
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Program Elements for Code B Items:	Code:	Other 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	82.5	12.5	11.0	3.0	3.2	3.2	3.4	2.7		121.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	82.5	12.5	11.0	3.0	3.2	3.2	3.4	2.7		121.4
Initial Spares										
Total Proc Cost	82.5	12.5	11.0	3.0	3.2	3.2	3.4	2.7		121.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program provides for the maintenance of laidaway portions of active weapons production plants, and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at Government-owned plants and the Arsenal Support Program Initiative (ASPI).

At Hawthorne Army Depot, the funding represents the storage costs for items from Rock Island and Watervliet Arsenals. The funds also pay for storage, facilities/equipment maintenance, and inspection of Industrial Plant Equipment (IPE) stored at Rock Island Arsenal, and layaway machine tools, gauges, special measuring equipment, tooling and fixturing stored at Watervliet Arsenal.

**Justification:**  
FY 07 provides funds for the maintenance of laidaway weapons production facilities to include utilities, buildings, non-severable equipment, plant equipment, special tooling, and special test equipment being retained as part of approved Army Reserve Plants, which are required to support future production and replenishment requirements. Requested funds are required to perform periodic inspection and maintenance of the laidaway equipment to preclude this unique equipment from deteriorating and jeopardizing planned reactivation capabilities and timelines. Failure to maintain the equipment in a ready state risks significant delays in supporting essential warfighting materiel. This program also includes the appropriate allocation of recurring overhead costs associated with the laidaway facilities and equipment such as roads and grounds maintenance, fire protection, plant security, and administrative support.

These efforts support the Headquarters, U.S. Tank-Automotive and Armaments Command's initiative to reduce Industrial Mobilization Capacity costs and unneeded infrastructure costs.

The ASPI incentive funding is used to renovate/modernize idle and underutilized government-owned facilities to make them usable and attractive to paying commercial tenants. Congress first authorized the ASPI within the FY 2001 Defense Authorization Act (PL 106-398) and subsequently extended the program through FY 2008. The ASPI is applicable to the Rock Island Arsenal (RIA) Joint Manufacturing and Technology Center (JMTC), Watervliet Arsenal (WVA) JMTC, and Pine Bluff Arsenal with FY 06 funding planned for RIA (\$5.5 million) and WVA (\$3.0 million). The ASPI program is designed to integrate civilian commercial activity into the arsenals to reduce government operating costs by sharing overhead burdens. The benefits to the Army include overhead cost reduction, reduced facility maintenance costs, local skill retention, positive community relations, and reduction of future conveyance costs.



<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles	P-1 Line Item Nomenclature: INDUSTRIAL PREPAREDNESS (GC0075)	Weapon System Type:	Date: February 2006
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WTCV Cost Elements	ID	FY 05			FY 06			FY 07		
	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
Hawthorne Army Depot		51			55			61		
Rock Island Arsenal		3269			1717			2240		
Watervliet Arsenal		201			734			718		
Arsenal Support Program Incentive (ASPI)		8990			8500					
<b>Total</b>		<b>12511</b>			<b>11006</b>			<b>3019</b>		

<b>Exhibit P-26, Maintenance of Inactive Industrial Facilities</b>				Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army/2/Weapons and other combat vehicles			Date: February 2006	
Inactive Lines at Contractor Plants		Facility: Hawthorne Army Depot			Contractor: Day & Zimmerman, Hawthorne Corporation			
<b>Funding</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Maintenance Cost								
Recurring Overhead								
Environmental								
Other	51	55	61	66	74	84	95	
Description: The Fiscal Year (FY) 2006/2007 requirement will provide for contractor storage and inspection of Industrial Plant Equipment (IPE) at Hawthorne Army Ammunition Plant (HWAAP). These costs represent a contractual commitment.								
Inactive Lines at Active Plants		Facility: Rock Island Arsenal			Contractor: Not Applicable			
<b>Funding</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Maintenance Cost	1330	1717	2240	1953	1990	2809	2453	
Recurring Overhead								
Environmental								
Other								
Description: The Fiscal Year (FY) 2006/2007 requirement is for the maintenance of laidaway portions of active weapons production plants and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at Rock Island Arsenal (RIA). Funds are used for maintenance of laidaway weapons production facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling (ST), and special test equipment (STE) being retained as part of approved plant equipment packages (PEPs) which are required to support future production and replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support. Project will also provide for the maintenance of additional equipment and facilities being laidaway in support of Program Budget Decision (PBD) 407 requirements. FY06-300 pieces of equipment, FY07-250 pieces of equipment.								
Inactive Lines at Active Plants		Facility: Watervliet Arsenal			Contractor: Not Applicable			
<b>Funding</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Maintenance Cost	201	734	718	1142	1041	532	125	
Recurring Overhead								
Environmental								
Other								
Description: The Fiscal Year (FY) 2006/2007 requirement is for the maintenance of laidaway portions of active weapons production plants and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at Watervliet Arsenal (WVA). Funds are used for maintenance of laidaway weapons production facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling (ST), and special test equipment (STE) being retained as part of approved plant equipment packages (PEPs) which are required to support future replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support. Project will also provide for the maintenance of additional equipment and facilities being laidaway in support of Program Budget Decision (PBD) 407 requirements. FY06-43 pieces of equipment, FY07-40 pieces of equipment.								
Inactive Lines at Active Plants		Facility: Arsenal Support Program Incentive (ASPI)			Contractor:			
<b>Funding</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Maintenance Cost	8990	8500						

<b>Exhibit P-26, Maintenance of Inactive Industrial Facilities</b>			Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army/2/Weapons and other combat vehicles				Date: February 2006	
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Recurring Overhead							
Environmental							
Other							

Description: The purpose of the Arsenal Support Program Initiative (ASPI) is to provide a mechanism to allow the manufacturing plants to maintain their capability to support DoD.

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)
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Program Elements for Code B Items:	Code:	Other 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	35.1	23.1	5.2	2.8	5.4	1.3	5.2	4.2	0.0	82.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	35.1	23.1	5.2	2.8	5.4	1.3	5.2	4.2	0.0	82.2
Initial Spares										
Total Proc Cost	35.1	23.1	5.2	2.8	5.4	1.3	5.2	4.2	0.0	82.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
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 determines the acquisition strategy, market survey, candidate evaluation and 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 and 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 program is equipment for the Rapid Fielding Initiative (RFI).

**Justification:**  
FY 2007 procures a Family of Small Arms Suppressors (New Initiative), the Advanced Sniper Accessory Kit (New Start), and Close Combat Mission Capability Kits (CCMCK's) for SEP. The Family of Small Arms Suppressors will decrease the risk of detection when the Soldier engages a target by reducing weapon flash, smoke, noise, and dust. The Advanced Sniper Accessory Kit provided the sniper teams performance enhancing capabilities such as a Laser Range Finder, a Ballistic Computer, a Boresight Device, etc. CCMCK is a user installed weapons modification system that allows the Soldier to employ his individual weapon at short range using low velocity marking ammunition. This will enhance pre-deployment preparation and tactics for small arms weapons systems, while precluding the weapon from firing standard service ammunition. 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. These items include 9mm magazines, Combat Ammo Packs, M203 Day Night Sights and bipods.

<b>Exhibit P-5, Weapon WTCV Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			P-1 Line Item Nomenclature: SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)			Weapon System Type:		Date: February 2006	
<b>WTCV Cost Elements</b>		ID CD	<b>FY 05</b>			<b>FY 06</b>			<b>FY 07</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>1. HARDWARE</b>											
Family of Small Arms Suppressors		B						360	450		1
Advanced Sniper Accessory Kit		B						204	72		3
Combat Ammo Pack		A	486	3500							
M203 Day/Night Sight		A	9290	9499	1						
Close Combat Mission Capability Kit		B				2949	35589	670	7769		
Rapid Fielding Initiative			8842			1548		260			
<b>2. ENGINEERING SUPPORT</b>											
Family of Small Arms Suppressors								86			
Close Combat Mission Capability Kit						100		520			
Combat Ammo Pack			132								
M203 Day/Night Sights			499								
Rapid Fielding Initiative			2671								
<b>3. INTEGRATED LOGISTICAL SUPPORT</b>											
M203 Day/Night Sights			100								
<b>4. FIELDING</b>											
Close Combat Mission Capability Kit						100					
M203 Day/Night Sights			100								
Rapid Fielding Initiative			80								
<b>5. NEW EQUIPMENT TRAINING</b>											
Close Combat Mission Capability Kit								100			
Rapid Fielding Initiative			100								
<b>6. MATERIEL RELEASE</b>											
Close Combat Mission Capability Kit								400			
6. PM-Soldier Weapons Support			800			481		150			
<b>Total</b>			<b>23100</b>			<b>5178</b>		<b>2750</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2006

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles										
		Weapon System Type:	P-1 Line Item Nomenclature: SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)							
<b>Family of Small Arms Suppressors</b> FY 2007 <b>Advanced Sniper Accessory Kit</b> FY 2007 <b>Combat Ammo Pack</b> FY 2005 <b>M203 Day/Night Sight</b> FY 2005 <b>Close Combat Mission Capability Kit</b> FY 2006 FY 2006 FY 2006 FY 2007 FY 2007 FY 2007										
	TBS	C/FP	TACOM, Picatinny, NJ	Dec 06	Feb 07	450	1	Yes		
	TBS	TBD	TACOM, Picatinny, NJ	Dec 06	Dec 06	72	3	Yes		
	Manroy, Inc United Kingdom	SS/FP	TACOM, Picatinny, NJ	Feb 05	May 05	3500	0			
	Insight Technolgy Londonderry, NH	SS/FP	TACOM, Picatinny, NJ	Jan 05	Apr 05	9499	1			
	Ultimate Training Munitions United Kingdom	Option*	TACOM, Picatinny, NJ	Feb 06	Apr 06	11889	0	YES		
	SNC Technology Canada	Option*	TACOM, Picatinny, NJ	Feb 06	Apr 06	2700	0	YES		
	TBS	TBD	TACOM, Picatinny, NJ	Mar 06	May 06	21000	0	YES		
	Ultimate Training Munitions United Kingdom	SS/FP	TACOM, Picatinny, NJ	Dec 06	Feb 07	2405	0	YES		
	SNC Technology Canada	SS/FP	TACOM, Picatinny, NJ	Dec 06	Feb 07	800	0	YES		
	TBS	TBD	TACOM, Picatinny, NJ	Dec 06	Feb 07	4564	0	YES		

REMARKS: \*FY 2006 Close Combat Mission Capability Kit is a procurement option to a competitive FY 2005 RDT&E contract. The Kits are for the M249 SAW, the M9/M11 Pistol, the M4 Carbine/M16 Rifle and a Face Mask.

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature REF Small Arms (G15400)
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Program Elements for Code B Items:		Code:		Other 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	6.0	2.0								8.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	6.0	2.0								8.0
Initial Spares										
Total Proc Cost	6.0	2.0								8.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
The Rapid Equipping Force (REF) was established to provide urgently needed state-of-the-art technology to soldiers in the field to meet immediate requirements. The REF team works in the field with combat commandants in Iraq and Afghanistan to identify immediate needs. New equipment is delivered to the requesting units. The REF solution is a rapid response to evolving, adaptable and changing asymmetric threat in any operational environment. The REF evaluates, utilizes or adapts currently available military or civilian items, which have not been type classified for Army-wide use, but are appropriate for the current combatant operational commanders' needs in at least one theater of operations.

FY 2005 funds support Force Protection and will continue to procure emerging technology defensive equipment and rapidly enhance field equipment being utilized in the current combat operational theaters.

REF received \$6M in the FY04 Supplemental to initiate the program. FY 2004 supports Force Protection and continues to support high capacity magazines, automatic gun system for PILAR, mortars for counter mortar system, and non-lethal weapons.

<b>Exhibit P-40, Budget Item Justification Sheet</b>	Date: February 2006
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 3 / Spare and repair parts	P-1 Item Nomenclature SPARES AND REPAIR PARTS (WTCV) (GE0150)
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Program Elements for Code B Items:	Code:	Other 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	175.5	8.2	5.4							189.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	175.5	8.2	5.4							189.1
Initial Spares										
Total Proc Cost	175.5	8.2	5.4							189.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
This program provides for the procurement of spares to support initial fielding of new or modified end items.

**Justification:**  
FY 2007 has no funding.