

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
Fiscal Year (FY) 2005 Budget Estimate

WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION

February 2004

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, \$1,639,695,000, to remain available for obligation until September 30, 2007.

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APPROPRIATION SUMMARY

APPROPRIATION

DOLLARS IN THOUSANDS

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>PAGE</u>
Procurement of W&TCV, Army	2,246,708	1,944,873	1,639,695	3
TOTAL PROCUREMENT PROGRAM	2,246,708	1,944,873	1,639,695	

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APPROPRIATION	Procurement of W&TCV, Army	DOLLARS IN THOUSANDS			
ACTIVITY		FY 2003	FY 2004	FY 2005	PAGE
01	Tracked combat vehicles	2,078,670	1,804,601	1,487,666	4
02	Weapons and other combat vehicles	145,166	122,376	131,941	6
03	Spare and repair parts	22,872	17,896	20,088	8
APPROPRIATION TOTALS		2,246,708	1,944,873	1,639,695	

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APPROPRIATION Procurement of W&TCV, Army ACTIVITY 01 Tracked combat vehicles

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2003		FY 2004		FY 2005	
			QTY	COST	QTY	COST	QTY	COST
	<i>TRACKED COMBAT VEHICLES</i>							
1	ABRAMS TRNG DEV MOD (GA5208)			5,411		6,206		3,643
2	BRADLEY BASE SUSTAINMENT (G80718)	B		(447,603)		(344,520)		(71,378)
	Less: Advance Procurement (PY)			(-10,184)				
				<u>437,419</u>		<u>344,520</u>		<u>71,378</u>
3	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	A		8,388		3,372		2,454
4	ABRAMS TANK TRAINING DEVICES (GB1300)	A		11,858				3,624
5	Stryker (G85101)	A		780,076		982,681		905,074
	<i>SUB-ACTIVITY TOTAL</i>			<u>1,243,152</u>		<u>1,336,779</u>		<u>986,173</u>
	<i>MODIFICATION OF TRACKED COMBAT VEHICLES</i>							
6	CARRIER, MOD (GB1930)	A		31,846		40,770		
7	FIST VEHICLE (MOD) (GZ2300)			6,848		38,732		1
8	MOD OF IN-SVC EQUIP, FIST VEHICLE (GZ2320)			680		671		670
9	BFVS SERIES (MOD) (GZ2400)	A		76,123		41,565		55,424
10	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	A		17,069		34,335		18,350
11	FAASV PIP TO FLEET (GA8010)	A		2,894		10,900		7,294
12	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	A	5	51,600				
13	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	A		9,853				
14	M1 ABRAMS TANK (MOD) (GA0700)	A		159,449		106,885		116,917
15	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)	B	7	85,183	34	180,050	67	292,152

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APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 01 Tracked combat vehicles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2003		FY 2004		FY 2005	
			QTY	COST	QTY	COST	QTY	COST
16	ABRAMS UPGRADE PROGRAM (GA0750)	A		(593,411)		(3,317)		
	Less: Advance Procurement (PY)			(-209,173)				
				<u>384,238</u>		<u>3,317</u>		
	<i>SUB-ACTIVITY TOTAL</i>			<u>825,783</u>		<u>457,225</u>		<u>490,808</u>
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>							
17	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)			3		485		407
18	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			9,732		10,112		10,278
	<i>SUB-ACTIVITY TOTAL</i>			<u>9,735</u>		<u>10,597</u>		<u>10,685</u>
	ACTIVITY TOTAL			<u>2,078,670</u>		<u>1,804,601</u>		<u>1,487,666</u>

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APPROPRIATION Procurement of W&TCV, Army ACTIVITY 02 Weapons and other combat vehicles

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2003		FY 2004		FY 2005	
			QTY	COST	QTY	COST	QTY	COST
<i>WEAPONS AND OTHER COMBAT VEHICLES</i>								
19	Integrated Air Burst Weapon System Family (G16101)	A						500
20	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	A	1,780	16,994	1,480	16,752	2,070	25,249
21	MACHINE GUN, 5.56MM (SAW) (G12900)	A	750	3,818	1,200	4,963		80
22	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	A	626	16,383				
23	Mortar Systems (G02200)		52	4,356	59	10,027	577	5,258
24	M16 RIFLE (G14900)	A	5,564	3,052				
25	XM107, CAL. 50, SNIPER RIFLE (G01500)		600	8,955	600	8,688	600	8,871
26	5.56 CARBINE M4 (G14904)	A	7,809	9,001	8,158	8,911	8,255	9,376
27	HOWITZER LT WT 155MM (T) (G01700)					7,939	18	37,209
	<i>SUB-ACTIVITY TOTAL</i>			<u>62,559</u>		<u>57,280</u>		<u>86,543</u>
<i>MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES</i>								
28	MARK-19 MODIFICATIONS (GB3000)			2,847		3,816		4,236
29	M4 CARBINE MODS (GB3007)	A		33,272		22,907		13,777
30	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)			11,658		5,473		3,382
31	Medium Machine Guns (MODS) (GZ1300)	A		1,289		3,922		3,409
32	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)				13	875	13	779
33	M119 MODIFICATIONS (GC0401)	A		4,770				
34	M16 RIFLE MODS (GZ2800)	A				2,351		2,345

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APPROPRIATION Procurement of W&TCV, Army ACTIVITY 02 Weapons and other combat vehicles

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2003		FY 2004		FY 2005	
			QTY	COST	QTY	COST	QTY	COST
35	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)			7,905		3,334		3,245
	<i>SUB-ACTIVITY TOTAL</i>			61,741		42,678		31,173
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>							
36	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)			4,285		2,016		486
37	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			5,734		7,036		6,620
38	INDUSTRIAL PREPAREDNESS (GC0075)			7,321		6,129		2,629
39	SMALL ARMS (SOLDIER ENH PROG) (GC0076)			3,526		1,237		3,492
40	REF Small Arms (G15400)	A				6,000		998
	<i>SUB-ACTIVITY TOTAL</i>			20,866		22,418		14,225
	ACTIVITY TOTAL			145,166		122,376		131,941

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APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 03 Spare and repair parts

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2003		FY 2004		FY 2005		
			QTY	COST	QTY	COST	QTY	COST	
	<i>SPARES AND REPAIR PARTS</i>								
41	SPARES AND REPAIR PARTS (WTCV) (GE0150)			22,872		17,896		20,088	
	<i>SUB-ACTIVITY TOTAL</i>			<u>22,872</u>		<u>17,896</u>		<u>20,088</u>	
	ACTIVITY TOTAL			<u>22,872</u>		<u>17,896</u>		<u>20,088</u>	
	APPROPRIATION TOTAL			<u>2,246,708</u>		<u>1,944,873</u>		<u>1,639,695</u>	

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3	GZ2500	BRADLEY FVS TRAINING DEVICES (MOD)	18
4	GB1300	ABRAMS TANK TRAINING DEVICES	22
5	G85101	Stryker	26
6	GB1930	CARRIER, MOD	36
7	GZ2300	FIST VEHICLE (MOD)	42
8	GZ2320	MOD OF IN-SVC EQUIP, FIST VEHICLE	47
9	GZ2400	BFVS SERIES (MOD)	48
10	GA0400	HOWITZER, MED SP FT 155MM M109A6 (MOD)	56
11	GA8010	FAASV PIP TO FLEET	60
12	GA0570	IMPROVED RECOVERY VEHICLE (M88 MOD)	66
13	GZ3000	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD)	70
14	GA0700	M1 ABRAMS TANK (MOD)	72
15	GA0730	SYSTEM ENHANCEMENT PGM: SEP M1A2	118
16	GA0750	ABRAMS UPGRADE PROGRAM	123
17	GL3100	ITEMS LESS THAN \$5.0M (TCV-WTCV)	129
18	GA0050	PRODUCTION BASE SUPPORT (TCV-WTCV)	130
19	G16101	Integrated Air Burst Weapon System Family	133
20	G13000	ARMOR MACHINE GUN, 7.62MM M240 SERIES	135
21	G12900	MACHINE GUN, 5.56MM (SAW)	141

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24	G14900	M16 RIFLE	148
25	G01500	XM107, CAL. 50, SNIPER RIFLE	150
26	G14904	5.56 CARBINE M4	155
27	G01700	HOWITZER LT WT 155MM (T)	162
28	GB3000	MARK-19 MODIFICATIONS	169
29	GB3007	M4 CARBINE MODS	177
30	GZ1290	SQUAD AUTOMATIC WEAPON (MOD)	185
31	GZ1300	Medium Machine Guns (MODS)	197
32	GA0430	HOWITZER, TOWED, 155MM, M198 (MODS)	198
33	GC0401	M119 MODIFICATIONS	199
34	GZ2800	M16 RIFLE MODS	200
35	GC0925	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)	206
36	GL3200	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	212
37	GC0050	PRODUCTION BASE SUPPORT (WOCV-WTCV)	213
38	GC0075	INDUSTRIAL PREPAREDNESS	221
39	GC0076	SMALL ARMS (SOLDIER ENH PROG)	226
40	G15400	REF Small Arms	229
41	GE0150	SPARES AND REPAIR PARTS (WTCV)	230

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	34.6	5.3	5.5	5.4	6.2	3.6	3.8	1.1	1.1	1.1		67.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	34.6	5.3	5.5	5.4	6.2	3.6	3.8	1.1	1.1	1.1		67.6
Initial Spares												
Total Proc Cost	34.6	5.3	5.5	5.4	6.2	3.6	3.8	1.1	1.1	1.1		67.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program accomplishes modifications to Abrams Training Devices required as a result of changes to the Abrams tanks or tank training requirements. These changes are hardware and software modifications to existing equipment needed to keep simulators abreast of developments in the Fielded Abrams Tank fleet. These system modifications support the current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures 12 Conduct of Fire(COFT) M1A1 conversions to COFT Advanced Gunnery Training Systems (C-AGTS). Special emphasis will be made on upgrading the institutional training devices. This program meets needs validated by the Abrams tank user community. Degradation of tank training will occur if these modifications are deleted. The trainers detailed herein are for units at FORSCOM, USAREUR, TRADOC and Army Reserve units. All of these modifications represent significantly less costly alternatives to new procurements of similar equipment.

Since over 4000 tank crewmen and maintenance personnel train on these simulators each year, there are significant savings in fuel as well as tank wear and tear.

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Conduct of Fire Trmr (COFT) Conv.											
1-97-05-4526	Operational	13.7	5.2	3.3	2.6	2.7	0.6	0.6	0.6	0.0	29.3
M1A2 AGTS / Sep Modification											
1-97-05-4527	Operational	1.9	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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
MTS SEP Modification											
1-97-05-4530	Operational	7.7	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	8.0
Tank Driver Trainer											
1-97-05-4528	Operational	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Prior Year Closed Modifications											
0-00-00-0000		17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7
Institutional Trainer Upgrades											
0-00-00-0000		0.0	0.0	1.5	1.0	1.0	0.5	0.5	0.5	0.0	5.0
Totals		45.2	5.3	6.2	3.6	3.7	1.1	1.1	1.1	0.0	67.3

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Institutional Trainer Upgrades [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

Provides for improvements/changes to training devices at the various Army Schools to provide the appropriate devices to reflect the current needs of the training community.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						
Pr Yr	FY 2008				FY 2009				FY 2010				FY 2011				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 2004

FY 2005

FY 2006

Delivery Date:

FY 2004

FY 2005

FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Institutional Trainer Upgrades [MOD 7] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment						1.5		1.0		1.0		0.5		0.5		0.5				5.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
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
Total Procurement Cost		0.0		0.0		1.5		1.0		1.0		0.5		0.5		0.5		0.0		5.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
BRADLEY BASE SUSTAINMENT (G80718)

Program Elements for Code B Items:

Code:
L

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	909	157	142	191	154							1553
Gross Cost	1811.4	422.8	396.9	447.6	344.5	71.4						3494.5
Less PY Adv Proc			12.3	10.2								22.5
Plus CY Adv Proc		19.8	2.7									22.5
Net Proc (P-1)	1811.4	442.6	387.3	437.4	344.5	71.4						3494.5
Initial Spares	23.6	11.4	7.1	13.0	12.5	8.6	37.9					114.2
Total Proc Cost	1835.0	454.0	394.3	450.4	357.1	80.0	37.9					3608.7
Flyaway U/C												
Wpn Sys Proc U/C		2.8	2.7	2.3	2.2							

Description:

The Bradley Base Sustainment Program's purpose is to upgrade earlier versions of the Bradley into the A2 Operations Desert Storm (ODS), the Operation Iraqi Freedom Vehicle (OIF) and the A3 variants. Low Rate Initial Production for the Bradley A3 occurred between FY97-00 with a three year multi-year production contract occurring between FY01 and FY03. The OIF adds the A3 Integrated Bradley Acquisition System (IBAS) to the ODS configuration. The Bradley A3 is more lethal, survivable, sustainable and provides enhanced command and control allowing shared situation awareness and enemy/friendly force location. The Bradley A3 has all of the attributes required to defeat current and future threat forces while remaining operationally compatible with the M1A2 SEP Abrams Tank. This system supports the Current Force transition path of the Transformation Campaign Plan.

Justification:

FY05 funds the annualized cost associated with the deliveries and fielding of the FY02/03 production contracts. Due to administrative and production lead times, vehicles procured in FY02/03 will be fielded through FY05.

Quantities reflected in FY03 and prior years are a mix of conversions from older Bradleys to more modernized Bradleys. These conversions include upgrades from the A0 to A2's, from the A0 to A2 Linebackers (M6), and from the A2 to A3. Between FY99-FY03, conversions were a mix of upgrades from the A0 to the A2ODS's and from the A2 to A3.

FY2004 includes a Congressional increase of \$221.2M for 144 OIF vehicles to support the 3ACR.

FY 2004 includes supplemental funding of \$12.5M for 10 A2ODS vehicles.

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: BRADLEY BASE SUSTAINMENT (G80718)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD	FY 03			FY 04			FY 05					
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
BRADLEY BASE SUSTAINMENT (A2)					53625	53	1012	267551	154	1737				
BRADLEY BASE SUSTAINMENT (A3)					396784	138	2875	89515				80024		
Total					450409			357066				80024		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /1/Tracked combat vehicles	P-1 Item Nomenclature BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)
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Program Elements for Code B Items:	Code: L	Other Related Program Elements:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	703	48		53	154							958
Gross Cost	949.0	66.0	1.7	53.6	235.5							1305.9
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Net Proc (P-1)	949.0	66.0	1.7	53.6	235.5							1305.9
Initial Spares												
Total Proc Cost	949.0	66.0	1.7	53.6	235.5							1305.9
Flyaway U/C												
Wpn Sys Proc U/C		1.4		1.0	1.5							

Description:

The Bradley Base Sustain Program upgrades the 154 Bradley A2 platforms into other configurations--131 Operation Iraqi Freedom (OIF), 13 Bradley Fire Support Team (BFIST) Vehicles and 10 A2 Operation Desert Storm (ODS), and funds fielding of the various Bradley vehicles to active and reserve component forces. The OIF adds the Integrated Bradley Acquisition System (IBAS) to the ODS configuration. The Bradley Base Sustainment Program for the M2/M3A2 ODS upgrades older versions of the Bradley A0 and A2 into the ODS configuration. The ODS increases the lethality, survivability, and sustainability of the older A0 and A2 platforms. Specifically, the ODS conversion adds a laser range finder, global positioning and inertial navigation systems, enhanced armor protection, and a spall liner. The Bradley A2ODS is fielded to elements of the National Guard. This system supports the Current Force transition path of the Transformation Campaign Plan.

Justification:

Quantities reflected in the prior years are a mix of A0 and A2 conversions to the ODS. Additionally, quantities include conversions from the A0 to A2 Linebackers (M6). The OIF vehicles and the BFIST were authorized by the FY04 Congressional increase. The 10 A2ODS vehicles are part of the FY 04 supplemental bill. F04 funds fielding of the various Bradley vehicles to active and reserve component forces.

FY2004 includes a Congressional increase of \$221.2M for 144 OIF vehicles to support the 3ACR.

FY 2004 includes supplement funding of \$12.5M for 10 A2ODS vehicles.

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: BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD	FY 03			FY 04			FY 05					
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
ODS Program														
ODS Vehicles					30773	53	581	6105	10	611				
Other GFE (New)					6125	53	116	1325	10	133				
Other GFE (Reman)					1250	53	24	248	10	25				
Contractor Engineering					7816			3165						
Fielding					4118			1657						
ODS Program					50082			12500						
OIF Program														
OIF Vehicles								184122	144	1279				
FLIR (excludes BFIST's)								12799	131	98				
Other GFE								25799	144	179				
Sub Total								222720						
Test and Evaluation								297						
Sub Total								297						
BFVS Fielding					3543									
OIF Vehicles					3543			223017						
Total					53625			235517						

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2004

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
ODS Vehicles										
FY 2003	UDLP York PA	SS/FFP	TACOM	JUN-03	AUG-04	53	581	YES		
FY 2004	UDLP York PA	SS/FFP	TACOM	MAR-04	JUN-05	10	611	YES		
OIF Vehicles										
FY 2004	UDLP York PA	SS/ FFP	TACOM	MAR-04	JUN-05	144	1279	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2004

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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	206	109	142	138								595
Gross Cost	862.3	356.7	395.2	394.0	109.0	71.4						2188.7
Less PY Adv Proc	0.0	0.0	12.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
Plus CY Adv Proc	0.0	19.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
Net Proc (P-1)	862.3	376.6	385.6	383.8	109.0	71.4						2188.7
Initial Spares	23.6	11.4	7.1	13.0	12.5	8.6	37.9					114.2
Total Proc Cost	885.9	388.0	392.7	396.8	121.5	80.0	37.9					2302.8
Flyaway U/C												
Wpn Sys Proc U/C		3.5	2.7	2.8								

Description:

The Bradley Base Sustainment Program for the M2/M3A3 upgrades older versions of the Bradley into the A3 configuration. The A3 provides significant increases in the lethality, survivability, and sustainability of other Bradley platforms. Specifically, the A3 conversion improves on the Operation Desert Storm (ODS) variant through the addition of two 2nd Generation Forward Looking Infrared (FLIR) devices (one for the gunner, one for the commander), upgraded core electronics, improved ballistic fire control, enhanced command and control, situation awareness, and a collective Nuclear, Biological, and Chemical (NBC) protection system. This system supports the Current Force transition path of the Transformation Campaign Plan.

Justification:

FY05 funds the annualized cost associated with the deliveries and fielding of the FY02/03 production contracts. Due to administrative and production lead times, vehicles procured in FY02/03 will be fielded through FY05. The A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization. Additionally, FY05 funding supports OIF fielding and engineering services.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

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:

A3 Advanced Procurement Detail (in Mils):

FY	2001	2002	2003
FY2001 for FY2002	12.320		
FY2001 for FY2003	7.503		
FY2002		(12.320)	
FY2002 for FY2003		2.681	
FY2003			(10.184)

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: BRADLEY BASE SUSTAINMENT (M2A3) (G80717)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE														
Vehicle					209516	138	1518							
Improved Bradley Acq Subsystem (IBAS)					43711	138	317							
Forward Looking Infrared (FLIR)					35411	138	257							
Other GFE					22204	138	161							
Pre Mod Depot Maint					1538	138	11							
Sub total					312380									
Other Production Cost														
Engineering - Government					17790			14868			8535			
Engineering - Contractor					21362			22813			23855			
Project Management Administration					2814			2412			2021			
Reimbursable Matrix Support					5720			5614			5556			
Test and Eval (Prod Verification Test)					3060			2106			529			
Closure Costs											10780			
Business Base Adjustment								7500						
Sub total					50746			55313			51276			
Peculiar Support Equipment					10760			116						
Fielding					10492			21540			20102			
Assemble 10 ODS Vehicles					9600									
OIF Support Requirement								32034						
Sub Total					30852			53690			20102			
GROSS P-1 END COST					393978			109003			71378			
LESS: PRIOR YEAR ADV PROC					10184									
NET P-1 FULL FUNDING COST					383794			109003			71378			
PLUS: P-1 CY ADV PROC														
OTHER NON P-1 COSTS														
INITIAL SPARES					12990			12546			8646			
MODS														
TOTAL					12990			12546			8646			
Total					396784			121549			80024			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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 Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Vehicle										
FY 2002	UDLP YORK PA	MY/FFP	TACOM	MAR 02	JUL 03	142	1520	YES		
FY 2003	UDLP YORK PA	MY/FFP	TACOM	MAR 03	JUN 04	138	1518	YES		
Improved Bradley Acq Subsystem (IBAS)										
FY 2002	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	JAN 02	FEB 03	142	326	YES		
FY 2003	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	JAN 03	FEB 04	138	317	YES		
Forward Looking Infrared (FLIR)										
FY 2002	RTIS/DRS DALLAS TX/CAL	MY/FFP	CECOM	JAN 02	DEC 02	142	323	YES		
FY 2003	RTIS/DRS DALLAS TX/CAL	MY/FFP	CECOM	JAN 03	DEC 03	138	257	YES		

REMARKS: Multi year procurements (FY 01-03) for Vehicle and IBAS
Multi year procurement (FY 02-03) for FLIR

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	28.1	18.6	11.3	8.4	3.4	2.5	5.7	4.7	4.5	4.2		91.3
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	28.1	18.6	11.3	8.4	3.4	2.5	5.7	4.7	4.5	4.2		91.3
Initial Spares												
Total Proc Cost	28.1	18.6	11.3	8.4	3.4	2.5	5.7	4.7	4.5	4.2		91.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides upgrades to the BFVS Training Devices, which are required every time the vehicle software changes, as well as, modifications to training devices as required to support changes to the vehicle fleet. Current vehicle plans call for periodic software updates. These changes will effect the functionality of the Bradley Advanced Training System (BATS) and the M2A3 Maintenance Trainers.

The system supports the Current transition path of the Transformation Campaign Plan.

Justification:

FY05 procures modifications of close combat tactical trainers for the active Army, as well as, software upgrades to maintain training fidelity after changes in vehicle software. This program meets the requirements as stated in the Bradley Operational Requirements Document (ORD). 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.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Close Combat Tactical Trainer											
1-01-05-0010	Operational	20.8	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	23.0
Through Sight Video System (TSV) Mod											
1-99-05-4567	Operational	3.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Bradley Advanced Training Systems											
2-02-05-0010	Operational	5.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Software Upgrades											
1-96-05-4513	Operational	14.2	1.3	0.2	0.5	1.5	4.7	4.5	4.2	0.0	31.1
Maintenance Trainer Mods											
1-99-05-4568	Operational	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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	0.0	5.5	3.2	0.0	4.2	0.0	0.0	0.0	0.0	12.9
Totals		58.0	8.4	3.4	2.5	5.7	4.7	4.5	4.2	0.0	91.4

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Conduct of Fire Trainer Recap Program [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: A2, ODS, OIF

DESCRIPTION/JUSTIFICATION:

The Conduct of Fire Training recap program is to replace all computer processors and image generators with current state-of-the-art hardware and the reuse of Bradley Advanced Training System (BATS) software using a personnel computer image generator.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs						60								35						
Outputs							10	30	20						5	15	15			

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		95
Outputs																		95

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

Contract Dates: FY 2004 Jan 04 FY 2005 FY 2006

Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Conduct of Fire Trainer Recap Program [MOD 7] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment			36	4.7	24	3.2			35	4.2									95	12.1	
Equipment, Nonrecurring				0.8																	0.8
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2002 & Prior Equip -- Kits																					
FY 2003 -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
FY 2008 Equip -- Kits																					
FY 2009 Equip -- Kits																					
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	
Total Procurement Cost		0.0		5.5		3.2		0.0		4.2		0.0		0.0		0.0		0.0		12.9	

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	93.1	10.4	11.6	11.9		3.6	3.7	1.1	1.1	1.1	29.7	167.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	93.1	10.4	11.6	11.9		3.6	3.7	1.1	1.1	1.1	29.7	167.3
Initial Spares												
Total Proc Cost	93.1	10.4	11.6	11.9		3.6	3.7	1.1	1.1	1.1	29.7	167.3
Flyaway U/C												
Wpn Sys 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. Embedded Training (ET) integrates AGTS functions seamlessly into the M1A2 SEP to provide onboard virtual training.

- 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 (approximately 600/yr) 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.

These systems support the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures Advance Gunnery Training Systems, adapter kits permitting various different training devices and simulators to be installed on tanks, the integration of AIM improvements into the various training devices impacted by those changes on the tank, and software upgrades to keep training device software in sync with the software changes on the tanks.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)			Weapon System Type:			Date: February 2004				
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05			
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	
1. ADV. GNRV TRNG. SYS./EMBEDDED TRNG		A													
a. AGTS/ET Software						1524									
b. AGTS/ET Gov't Spt.						50									
c. AGTS/ET Non Recurring Cost															
AGTS/ET SUBTOTAL					1574										
2. ABRAMS INTEGRATED MGMT(AIM)															
a. AIM Software												1112			
b. AIM Government Support												49			
c. AIM Non-Recurring Cost															
MTS SUBTOTAL												1161			
3. NON SYS. INTEGR. KITS (NSI)															
a. NSI Software					943										
b. NSI Gov't Spt.					48							197			
c. NSI Non Recurring Cost												1466			
NSI SUBTOTAL					991							1663			
4. SOFTWARE UPGR. (SWU)															
a. SWU Software					882							351			
b. SWU Gov't Spt.					49							49			
c. SWU Non Recurring Cost												400			
SWU SUBTOTAL					931							800			
5. M1A2 SEP INTEGR (A2SI)															
a. A2SI Software					7654										
b. A2SI Gov't Spt					708										
c. A2SI Non Recurring Cost															
M1A2 SEP INTEGR SUBTOTAL					8362										
Total					11858							3624			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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)					
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
1. ADV. GNRV TRNG. SYS./EMBEDDED TRNG										
FY 2002	Lockheed Martin Orlando, FL	C-FFP	STRICOM	May-02	Apr-04			yes	no	n/a
FY 2003	Oasis Adv Engr, Inc. Auburn, MI	C-FFP	TACOM	various	Apr-04			yes	no	n/a
FY 2003	Lockheed Martin Orlando, FL	C-FFP	STRICOM	Jun-03	Apr-04			yes	no	n/a
2. ABRAMS INTEGRATED MGMT(AIM)										
FY 2005	TBS	TBD	STRICOM	Apr 05	Oct 05			yes	no	n/a
MTS SUBTOTAL										
FY 2002	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Feb-02	May-03			yes	no	n/a
FY 2003	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	tbd	tbd			yes	no	n/a
FY 2005	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Mar-05	May-06			yes	no	n/a
NSI SUBTOTAL										
FY 2002	various	C-FFP	STRICOM	Mar-02	Mar-03			yes	no	n/a
FY 2003	various	C-FFP	STRICOM	various	Mar-04			yes	no	n/a
FY 2005	various	C-FFP	STRICOM	May-05	Mar-06			yes	no	n/a
SWU SUBTOTAL										

REMARKS: Trainer Software upgrades (# 4 above) is not a Training Device in the normal accepted sense of the term; rather it will fund an annual update of Training Device software to keep pace with ongoing changes in the tank.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2004

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)					
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 2002	various	C-FFP	STRICOM	Feb-02	Mar-03			yes	no	n/a
FY 2003	various	C-FFP	STRICOM	Jun-03	Mar-04			yes	no	n/a

REMARKS: Trainer Software upgrades (# 4 above) is not a Training Device in the normal accepted sense of the term; rather it will fund an annual update of Training Device software to keep pace with ongoing changes in the tank.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
Stryker (G85101)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	7	447	300	282	310	310	300	130				2086
Gross Cost	22.0	920.9	653.3	780.1	982.7	905.1	951.3	770.2	76.4	168.8	761.8	6992.7
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	22.0	920.9	653.3	780.1	982.7	905.1	951.3	770.2	76.4	168.8	761.8	6992.7
Initial Spares												
Total Proc Cost	22.0	920.9	653.3	780.1	982.7	905.1	951.3	770.2	76.4	168.8	761.8	6992.7
Flyaway U/C												
Wpn Sys Proc U/C		2.1	2.2	2.8	3.2	2.9	3.2	5.9				

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2004

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

P-1 Item Nomenclature
STRYKER (G85100)

Program Elements for Code B Items:
0603653A

Code:
C03

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	7	447	300	282	310	310	300	130				2086
Gross Cost	22.0	920.9	653.3	780.1	982.7	905.1	951.3	770.2	76.4	168.8	761.8	6992.7
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Net Proc (P-1)	22.0	920.9	653.3	780.1	982.7	905.1	951.3	770.2	76.4	168.8	761.8	6992.7
Initial Spares												
Total Proc Cost	22.0	920.9	653.3	780.1	982.7	905.1	951.3	770.2	76.4	168.8	761.8	6992.7
Flyaway U/C												
Wpn Sys Proc U/C		2.1	2.2	2.8	3.2	2.9	3.2	5.9				

Description:

The Brigade Combat Team (BCT), equipped with Stryker Vehicles, is a full spectrum combat force. The Stryker Brigade Combat Team participates in major theater war (MTW), with augmentation, as a subordinate maneuver component within a division or corps. It can be used across the spectrum of military operations. The 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 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.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

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

P-1 Item Nomenclature

STRYKER (G85100)

Program Elements for Code B Items:
0603653ACode:
C03

Other Related Program Elements:

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.

This system supports the Current/Stryker Brigade Combat Team (SBCT) transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures the fifth of six Brigade Combat Teams (BCT) equipped with Stryker Vehicles. An immediate need exists for Stryker Vehicle equipped, C-130 transportable, Brigade Combat Teams (BCT), capable of deployment to anywhere on the globe in a combat ready configuration. 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 once in the Area of Operations is essential to fulfilling the Warfighting needs of the National Command Authority. 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.

Production Ready Stryker's:

Production Verification Test: Apr 02 - Nov 03

Follow-on production Test: Nov 03 - Nov 06

Live Fire Test & Evaluation for the 8 Production Representative Vehicles, including the Mortar Carrier Version A: Jun 02 - Feb 04

Live Fire Test & Evaluation for Mortar Carrier Version B and Armor: Jun 02 - Feb 04

Initial Operational Test & Evaluation: Apr 03 - Sep 03

NBC Reconnaissance Vehicle:

Live Fire Test & Evaluation: Apr 05 - Sep 05

Production Verification Test: Apr 05 - Apr 06

Production Qualification Test: May 03 - Jan 04

Initial Operational Test & Evaluation: Apr 06 - Jul 06

Limited User Test (LUT): Sep 03 - Oct 03

Mobile Gun System:

Production Qualification Test: Mar 03 - Jun 04

Live Fire Test & Evaluation: Oct 05 - Aug 06

Production Verification Test: Aug 05 - Aug 06

Initial Operational Test & Evaluation: Feb 06 - Jun 06

Limited User Test (LUT): Feb 04 - Mar 04

Mortar Carrier Version B:

Initial Operation Test & Evaluation: Jan 04 - Feb 04

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 (G85100)			Weapon System Type:			Date: February 2004		
WTCV Cost Elements	ID CD				FY 03			FY 04			FY 05		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Stryker Vehicles													
-Infantry Carrier Vehicle (ICV)				190022	134	1419	20356	14	1454	236869	159	1490	
-ICV Block Improvements				18184			19010			15900			
-Reconnaissance Vehicle (RV)				64149	51	1258	149988	115	1304	69811	51	1369	
-RV Block Improvements				6174			10014			6144			
-Anti-Tank Guided Missile Vehicle (ATGM)													
-ATGM Block Improvements				3163			1425			953			
-Mortar Carrier (MC)				56487	40	1412	42568	25	1703	54147	36	1505	
-MC Block Improvements				13015			4738			6822			
-Fire Support Vehicle (FSV)				17796	14	1271	38310	27	1419	19130	14	1366	
-FSV Block Improvements				2042			2555			1622			
-Engineer Squad Vehicle (ESV)				23945	10	2395	42010	17	2471	24822	10	2482	
-ESV Block Improvements				213			1647			1072			
-Commander's Vehicle (CV)							39358	25	1574	40896	22	1859	
-CV Block Improvements				2134			3562			2494			
-Medical Evacuation Vehicle (MEV)				21891	18	1216	24632	20	1232	23540	18	1308	
-MEV Block Improvements				384			426			384			
-NBC Reconnaissance Vehicle (NBCRV)							27927	10	2793				
-NBCRV Block Improvements							213						
-Mobile Gun System (MGS)				49577	15	3305	207799	57	3646				
-MGS Block Improvements				3169			5609			2938			
Stryker Vehicles Total				472345			642147			507544			
Government Furnished Equipment/ASIOE				31503			33790			28944			
- Long Range Adv Scout Surveillance FS3							10739			5652			
- Long Range Adv Scout Surveillance RV				19178			45739			20589			
- M707 Striker MEP				3637			6823			3719			
- Lightweight Laser Designator/Rangefind													
Engineering Change Proposal (ECP)				7582			11091			8831			
Basic Issue Items (BII)				1913			2075			2170			
Production Verification Test													
- Government PVT				38093			10375			17132			
- Contractor Support to PVT				45283			10008			36670			
Comparison Evaluation													
Refurbishment of Test Vehicles							15180			11726			
Program Management Support (Govt)				34124			39244			40286			
System Fielding Support				49232			50160			95147			
Block Improvement Retrofit (Bde 1 & 2)				36695			339			27275			
Initial Spares				5314			11314			6914			

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 (G85100)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Training Devices					21319			42472			23716			
System Technical Support (STS)					11300			43527			51889			
Post Deployment Software Support (PDSS)								5158			9727			
Integrated Data Environment					1801			2500			2541			
Award Fee											4602			
Unscheduled Modifications														
Pre-Planned Product Improvements (P3I)														
Facilitization					757									
Mounted Mortar														
Total					780076			982681			905074			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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

Weapon System Type:

P-1 Line Item Nomenclature:

STRYKER (G85100)

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
Stryker Vehicles										
FY 2003	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-3)	TACOM	Mar 03	Jan 04	267	1387	NA	NA	
FY 2003	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-3)	TACOM	Jun 04	Jun 05	15	3305	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-4)	TACOM	Mar 04	Feb 05	243	1470	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-4)	TACOM	Jun 04	Jun 05	10	2793	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-4)	TACOM	Aug 04	Jul 05	57	3645	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Jan 05	Feb 06	310	1514			
- Long Range Adv Scout Surveillance FS3										
FY 2004	Raytheon Company McKinney, TX	C/FFP	CECOM	Mar 04	Apr 05	27	357	Yes	NA	
FY 2005	Raytheon Company McKinney, TX	C/FFP	CECOM	Dec 04	Jan 06	14	383	Yes	NA	
- Long Range Adv Scout Surveillance RV										
FY 2003	Raytheon Company McKinney, TX	C/FFP	CECOM	Mar 03	Jun 04	51	379	Yes	NA	
FY 2004	Raytheon Company McKinney, TX	C/FFP	CECOM	Mar 04	Apr 05	115	380	Yes	NA	
FY 2005	Raytheon Company McKinney, TX	C/FFP	CECOM	Dec 04	Jan 06	51	419	Yes	NA	
- M707 Striker MEP										

REMARKS: Unit cost for Stryker Vehicles is an average of all IAV configurations procured on delivery orders issued during the respective fiscal year. Does not include Block Improvement costs.

- FY03 average unit cost for quantity of 15 reflects procurement of MGS vehicles.
- FY04 average unit cost increased due to vehicle mix of ICR brigade requiring high quantity of RVs.
- FY04 average unit cost for quantity of 57 reflects procurement of MGS vehicles.
- FY04 average unit cost for quantity of 10 reflects procurement of NBCRV vehicles.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2004

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: STRYKER (G85100)					
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
FY 2003	Systems & Electronics, Inc. Sanford, FL	SS/FFP	TACOM	Jan 03	Mar 04	14	177	Yes	NA	
FY 2004	Systems & Electronics, Inc. Sanford, FL	OPTION	TACOM	Mar 04	Apr 05	27	198	Yes	NA	
FY 2005	Systems & Electronics, Inc. Sanford, FL	SS/FFP	TACOM	Jan 05	Feb 06	14	208	Yes	NA	

REMARKS: Unit cost for Stryker Vehicles is an average of all IAV configurations procured on delivery orders issued during the respective fiscal year. Does not include Block Improvement costs.
 - FY03 average unit cost for quantity of 15 reflects procurement of MGS vehicles.
 - FY04 average unit cost increased due to vehicle mix of ICR brigade requiring high quantity of RVs.
 - FY04 average unit cost for quantity of 57 reflects procurement of MGS vehicles.
 - FY04 average unit cost for quantity of 10 reflects procurement of NBCRV vehicles.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	865.6	54.2	47.7	31.8	40.8							1040.2
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	865.6	54.2	47.7	31.8	40.8							1040.2
Initial Spares												
Total Proc Cost	865.6	54.2	47.7	31.8	40.8							1040.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M113 Family of Vehicles (FOV) consists of over 14,000 vehicles, 16 different variants/platforms in service in U.S. Army units. The M113 FOV is approximately 40% of the tracked combat vehicle fleet in a mechanized infantry or armor heavy division. The family provides transport for troops, anti-tank, fire direction, smoke, mortar, cargo carrier and command & control systems. The fleet is required until 2032 and must be modified to increase mobility, survivability and to install operational enhancements. Operation Desert Storm highlighted the need to improve the mobility and survivability, chemical protection, driver's night vision, fuel system, and Command Post Auxiliary Power Units for the fleet. Also included in this program is the T150 Track Set. The T150 track provides multiple times the track life of the T130 track. This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 2004 includes a congressional increase of \$17.5M for M113 Carrier Mod upgrades.

FY 2004 includes supplemental funding of \$23.4M for the Carrier Mod Program, (\$16.8M supports the M1068A3 variant and \$6.6M supports the M113A3 variant).

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	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	568.9	25.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	629.9
T-150 TRACK											
0-00-00-0000	Oper Capability	0.0	6.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Totals		967.6	31.8	40.8	0.0	0.0	0.0	0.0	0.0	0.0	1040.2

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
A3 Upgrades	3340	389.6	97	22.9	92	30.6													3529	443.1	
M577A3 conversion to M1068A3	0		29	2.1	48	3.5													77	5.6	
Equipment	0	3.5																		3.5	
Data	0	42.4																		42.4	
PM Support (Govt)	0	10.9																		10.9	
System Technical Support (Ctr)	0	10.6				1.7														12.3	
Other	0	5.0																		5.0	
Pre Conversion/Modification	0	47.5																		47.5	
FDT	0	2.8																		2.8	
TPF	0	7.3				0.2														7.5	
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	2241	49.3																		2241	49.3
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																				
Total Installment	2241	49.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	2241	49.3	
Total Procurement Cost		568.9		25.0		36.0		0.0		0.0		0.0		0.0		0.0		0.0		629.9	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: T-150 TRACK [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M113 FOV

DESCRIPTION/JUSTIFICATION:

T150 TRACK: Procures the T150 track to improve reliability and system safety while reducing Operation and Support (O&S) costs for track, the number 2 system cost driver. The T150 is a double pin, reversible track with increased life characteristics. The M113 fleet currently utilizes the T130 track, which provides limited life between track replacements. The T150 track provides multiple times the track life of T130 track. Increased track life equates to a substantial reduction in the O&S for the M113 FOV. The plan is to pure fleet all Counter Attack Corps A3 vehicles with the T150 Track Sets.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

TDP Available June 02

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0					6	222	202	150	50										
Outputs	0						66	76	169	219	100									

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		630
Outputs																		630

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:	4 Months	PRODUCTION LEADTIME:	4 Months
Contract Dates:	FY 2004		FY 2005		FY 2006
Delivery Date:	FY 2004		FY 2005		FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): T-150 TRACK [MOD 3] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Installation Kits	0		380	6.5	250	4.5													630	11.0
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																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0		380	0.3	250	0.3													630	0.6
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																			
Total Installment	0	0.0	380	0.3	250	0.3		0.0		0.0		0.0		0.0		0.0		0.0	630	0.6
Total Procurement Cost		0.0		6.8		4.8		0.0		0.0		0.0		0.0		0.0		0.0		11.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
FIST VEHICLE (MOD) (GZ2300)

Program Elements for Code B Items:
0203735A

Code:
B

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	403.8	31.6	6.7	6.8	38.7	0.0	0.0					487.7
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	403.8	31.6	6.7	6.8	38.7	0.0	0.0					487.7
Initial Spares												
Total Proc Cost	403.8	31.6	6.7	6.8	38.7	0.0	0.0					487.7
Flyaway U/C												
Wpn Sys 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 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. Procurement of the M7 variant ended in FY00 and resumes in FY04. The A3 BFIST takes advantage of Bradley A3 technology and capability advancements to embed much of the fire support MEP; what is not imbedded is added as an engineering change proposal (ECP) to the chassis. A3 BFIST procurement occurs in FY03. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY04 funding procures five (5) BFIST M7 ODS chassis and MEP kits, funds fielding and logistic support for the A3 BFIST, and funds the procurement of 62 Stand-alone Computer Units (SCUs). The current fire support vehicle, M981, was unable to maintain the operational tempo of Bradley/Abrams equipped maneuver forces during Operation Desert Storm (ODS).

FY 2004 includes supplemental funding of \$22.1M for the Bradley FIST Vehicle.

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: FIST VEHICLE (MOD) (GZ2300)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Cost														
1. A3 BFIST Upgrade Kit					650	9	72							
2. A3 BFIST Production delta								17800	13	1369				
3. M7 Vehicle Upgrade Kit								5980	5	1196				
4. M7 Mission Equipment Package (MEP)								405	5	81				
SUBTOTAL					650			24185						
5. Engineering Production					1740			4944						
6. Government Support					900			1132						
7. Fielding					658			7571				1		
8. Test & Evaluation					2900			900						
9. Support Equipment														
SUBTOTAL					6198			14547				1		
Total					6848			38732				1		

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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 Each

Unit Cost \$

Specs Avail Now?

Date Revsn Avail

RFP Issue Date

1. A3 BFIST Upgrade Kit

FY 2002

FY 2003

2. A3 BFIST Production delta

FY 2004

3. M7 Vehicle Upgrade Kit

FY 2004

4. M7 Mission Equipment Package (MEP)

FY 2004

UDLP, York PA

UDLP, York PA

UDLP, York PA

UDLP, York PA

SEI, Sanford FL

SS/FFP

SS/FFP

SS/FFP

SS/FFP

SS/FFP

USATACOM, Warren, MI

Jun 03

Jun-03

Mar-04

Mar-04

Mar-04

Oct 03

Jun 05

Jun 05

Jun-05

Jun-05

56

9

13

5

5

45

72

1369

1196

81

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost				0.7	0.7	0.7						2.0
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)				0.7	0.7	0.7						2.0
Initial Spares												
Total Proc Cost				0.7	0.7	0.7						2.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 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 the LCU due to obsolescence. This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures hardware changes as well as logistic changes to support the new digital communications platform and accommodates the integration of the Stand-alone Computer Unit (SCU) onto the BFIST. The Mod-In-Service line provides program flexibility to incorporate minor hardware and software changes to the BFIST without changing production quantities.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	960.2	64.3	59.0	76.1	41.6	55.4	45.4	75.6	61.7	31.3	122.8	1593.4
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	960.2	64.3	59.0	76.1	41.6	55.4	45.4	75.6	61.7	31.3	122.8	1593.4
Initial Spares												
Total Proc Cost	960.2	64.3	59.0	76.1	41.6	55.4	45.4	75.6	61.7	31.3	122.8	1593.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides for the procurement and application of modification kits for the Bradley Fighting Vehicle family. The Operation Desert Storm (ODS) improvements correct deficiencies identified during the first Gulf War and include the addition of a Laser Range Finder, Position Navigation System, Equipment Restow Improvement, and a Driver's Vision Enhancement system. Operational improvements are the Vehicle Intercommunications System, the Digital Electronic Control Assembly, and the capability to apply reactive Armor Tiles. The A2 ODS Engineering modification integrates the Bradley Fighting Vehicle into the Army's FBCB2 system for situation awareness. The High Priority Improvement Modification reflects evolutionary improvements to the Bradley A3 vehicle. It includes Blue Force Tracking, Solid State FBCB2 Hard Drive, Chassis Modification Embedded Diagnostics and improved vehicle core electronics. The Bradley program supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures A2 ODS Applique and High Priority Improvement modifications. These modifications will continue to meet requirements identified to correct deficiencies in Operation Desert Storm, and to improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and mobility will occur if these modifications are delayed or reduced.

FY04 funding includes a congressional increase of \$18.8 million for the Armor Tile program.

FY2003 includes supplemental funding of \$10.5M for the the Bradley Series Mod Program.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
A2 ODS Mods											
1-92-05-4404	Oper. Capability	191.8	2.4	0.2	3.0	0.0	0.0	0.0	0.0	0.0	197.4
A2 ODS Engineering											
1-98-05-4539	Oper. Capability	40.6	7.3	6.9	5.7	2.6	0.0	0.0	0.0	0.0	63.1
Armor tiles											
1-84-05-4038	Oper. Capability	151.6	25.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	195.4
BFVS High Priority Improvements											
1-98-05-4550	Oper. Capability	28.1	41.4	15.7	46.7	42.8	75.6	61.7	31.3	122.8	466.1
Prior Year Closed Mods											
0-00-00-0000		671.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	671.4
Totals		1083.5	76.1	41.6	55.4	45.4	75.6	61.7	31.3	122.8	1593.4

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: A2 ODS Engineering [MOD 2] 1-98-05-4539

MODELS OF SYSTEM AFFECTED: M2A2ODS Engineering

DESCRIPTION/JUSTIFICATION:

For the Counter Attack Corps, The Bradley Fighting Vehicle-Engineer will be integrated with an FBCB2 Applique System and an Engineer Equipment restow modification. The integration kit will include mounting the Flat Panel display, key board and Central Processing Unit (CPU) inside the Bradley turret and interfacing the vehicle's systems (Bradley Eye safe laser Rangefinder and Position/Navigation system) to the applique to provide Laser Designation and Steer To capability. The Engineer Vehicle also has a dismount compartment restow applied. This will allow the engineer squad to carry its mission specific equipment and increased amounts of explosives and primer cord. The ODS-E provides the Engineer Squad increased mobility and armor protection over the existing M113 series vehicles.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review: 7/95
 Critical Design Review: 1/96
 LUT: 8/98

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	88	21			15	14	14	14	15	14	14	14	14	10						
Outputs	88	21			15	14	14	14	15	14	14	14	14	10						

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		247
Outputs																		247

METHOD OF IMPLEMENTATION: Depot Teams ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2004 N/A FY 2005 N/A FY 2006 Jan 06
 Delivery Date: FY 2004 N/A FY 2005 N/A FY 2006 Jul 06

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): A2 ODS Engineering [MOD 2] 1-98-05-4539

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
ODS Installation A-kits	248	19.0																	248	19.0
ODS Installation B-kits	278	7.6																	278	7.6
ODS Installation Kits	46	5.6																	46	5.6
ODS IOT&E Log. Spt.	0	0.6																		0.6
ODS Engineering Spt.	0	3.4																		3.4
Training Spt.	0	0.3	0.7		0.7		0.7													2.4
EBC Retrofit Kits	53	1.5																	53	1.5
ODS Eng. Vehicle Engineering	0	0.7																		0.7
ODS Eng. Vehicle Kits	187	0.2			40	2.1	20	1.4											247	3.7
Misc. Parts	0	0.2																		0.2
--	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	88	1.5	21	6.6	57	4.1	21	1.3											187	13.5
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0						36	2.3	21	2.3									57	4.6
FY2005 Equip -- Kits	0								3	0.3									3	0.3
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	88	1.5	21	6.6	57	4.1	57	3.6	24	2.6		0.0		0.0		0.0		0.0	247	18.4
Total Procurement Cost		40.6		7.3		6.9		5.7		2.6		0.0		0.0		0.0		0.0		63.1

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Armor tiles [MOD 3] 1-84-05-4038

MODELS OF SYSTEM AFFECTED: M2/M3A2 ODS&M2/M3A3

DESCRIPTION/JUSTIFICATION:

Armor Tiles are one of the High Survivability improvements to the BFVS. The tiles provide increased armor protection for shaped charge threats, including hand held High Explosive Anti Tank (HEAT) and other classes of warheads as specified in the BFVS material need area. There are 5 configurations of tiles covering the vehicle front, sides and turret.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Critical Design Review: 3Q90
 Contractor Test and Evaluation: N/A
 Development Test and Evaluation: N/A
 Initial Operational Test and Evaluation: N/A
 IPR Production Decision: 2Q92
 TDP Available: N/A

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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:	Troop Installed	ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	6 Months
Contract Dates:	FY 2004 N/A	FY 2005 N/A		FY 2006 N/A	
Delivery Date:	FY 2004 N/A	FY 2005 N/A		FY 2006 N/A	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Armor tiles [MOD 3] 1-84-05-4038

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0	151.7																		
Procurement	0																				
Kit Quantity	465	128.6	80	23.5	60	17.0														605	169.1
Installation Kits	0		80	1.0	60	0.7														140	1.7
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0	0.6																			0.6
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0	22.4		0.5		1.1															24.0
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	0																				
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																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0			0.0
Total Procurement Cost		151.6		25.0		18.8		0.0		0.0		0.0		0.0		0.0		0.0			195.4

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: BFVS High Priority Improvements [MOD 4] 1-98-05-4550

MODELS OF SYSTEM AFFECTED: M2A3/M3A3/M2A2 ODS&OIF

DESCRIPTION/JUSTIFICATION:

The Bradley Fighting Vehicle Systems are expected to remain in service until at least 2032. These vehicles will represent the primary mechanized infantry force for some time into the foreseeable future. In order to remain viable and retain a strategic hedge against ever-improving threat forces, several modifications will be incorporated on these systems. The production implementation of these improvements will be incorporated on the A3 production line, but vehicles built prior to the upgrades will require modification. These improvements include the Battle Command Enabler (to include Blue Force Tracking) and Chassis Modernization Embedded Diagnostics, and the Digital Vehicle Distribution Box.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs											45	90	70	115	69	114	54	98	53	98
Outputs											45	90	45	45	84	83	45	45	51	62

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	120	165	119	164	99	98	98	143	45	45	45	45	180	225	180	225		2802
Outputs																		595

METHOD OF IMPLEMENTATION:	Depot Teams	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	6 Months
Contract Dates:	FY 2004 Jan 04	FY 2005 Jan 05		FY 2006 Jan 06	
Delivery Date:	FY 2004 Jul 04	FY 2005 Jul 05		FY 2006 Jul 06	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): BFVS High Priority Improvements [MOD 4] 1-98-05-4550

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
TPU 2	126	15.1																	126	15.1
CMED Driver Vision Upgrade			50	8.0	115	14.4	300	35.3	300	35.9	510	62.1	433	53.5	220	27.9	899	115.6	2827	352.7
CMED Other Support	0			4.4		0.7		1.5		0.5										7.1
Wildcard Replacement	0		700	1.3															700	1.3
Future Mods	0																			
Battle Command Enablers			39	1.4			98	9.0	33	3.1	118	11.2	33	3.2			876		1197	27.9
FBCB2 Harddrive	9	0.1	563	4.2	85	0.6													657	4.9
OEF/OIF	0			20.0																20.0
Equipment, NonRecurrring	0	12.9																		12.9
Other																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0			2.1																2.1
FY2003 Equip -- Kits	0						45	0.3											45	0.3
FY2004 Equip -- Kits	0						90	0.6											90	0.6
FY2005 Equip -- Kits	0								368	3.3									368	3.3
FY2006 Equip -- Kits	0										303	2.3							303	2.3
FY2007 Equip -- Kits	0												568	5.0					568	5.0
FY2008 Equip -- Kits	0													438	3.4				438	3.4
FY2009 Equip -- Kits	0															180	1.3	180	1.3	
TC Equip- Kits	0															810	5.9	810	5.9	
TC Equip Blk 3 kits																				
Total Installment	0	0.0		2.1		0.0	135	0.9	368	3.3	303	2.3	568	5.0	438	3.4	990	7.2	2802	24.2
Total Procurement Cost		28.1		41.4		15.7		46.7		42.8		75.6		61.7		31.3		122.8		466.1

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	1461.8	8.0	5.3	17.1	34.3	18.4	15.1	28.7	33.4	42.1		1664.1
Less PY Adv Proc	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		16.3
Plus CY Adv Proc	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		16.3
Net Proc (P-1)	1461.8	8.0	5.3	17.1	34.3	18.4	15.1	28.7	33.4	42.1		1664.1
Initial Spares	9.4											9.4
Total Proc Cost	1471.2	8.0	5.3	17.1	34.3	18.4	15.1	28.7	33.4	42.1		1673.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides for the procurement of approved modifications to the 155MM Self-Propelled Howitzer. The fiscal program identified herein completes production and fielding of the M109A6 Paladin Howitzer and funds selected Paladin System Improvements. This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures the following Howitzer Improvement Program system improvements necessary for the vehicle to operate and interface with other systems on the battlefield: Defense Advanced Global Positioning System Receiver (DAGR)Integration; Modular Artillery Charge System (MACS) Storage and Handling; and Paladin Digital Fire Control System (PDFCS).

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
----------	----------------	-----------	---------	---------	---------	---------	---------	---------	---------	----	-------

Howitzer Improvement Program

1-81-05-1002	Unclassified	1471.6	17.0	34.4	18.4	15.1	28.7	33.4	42.1	0.0	1660.7
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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
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Totals		1475.1	17.0	34.4	18.4	15.1	28.7	33.4	42.1	0.0	1664.2
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INDIVIDUAL MODIFICATION

Date: February 2004

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

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

DESCRIPTION/JUSTIFICATION:

The M109A6 Paladin, approved for full scale production, was designed to upgrade the M109A2/A3 Howitzer's responsiveness, effectiveness, survivability, and Reliability, Availability, and Maintainability-Durability (RAM-D). This meets the user's urgent need for a product improved system that satisfies the deficiencies cited in these areas by the Mission Element Need Statement (MENS), approved by the Secretary of Defense in December 1980. The production phase of the program involved a combined effort between Letterkenny Army Depot and the contractor. M109A2/A3 Howitzers from CONUS and OCONUS field units were shipped to Letterkenny Army Depot for overhaul and modification. The overhauled/modified chassis were shipped to the contractor for final integration, assembly, and acceptance testing. The acquisition strategy for the FY89/90-92 called for sole source contracts. A FY93-96 competitive multiyear production contract was awarded to UDLP in April 1993. In April 1997, a contract modification was awarded to the existing multiyear production contract for an additional 37 M109A6 Paladins. A FY98 contract option for 36 vehicles was awarded in November 1997 and a FY00 contract was awarded in July 2000 for 7 additional systems. In October 2001, FY00 funding was received for an additional 18 vehicles from proceeds of an FMS sale of M109A2 Howitzers resulting in the FY02 contract option being awarded. Additionally, FY02-FY09 funding is for system improvements necessary for the vehicle to operate and interface with other systems on the battlefield.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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. Deliveries from the FY00 contract were completed 2nd Qtr FY02. Deliveries from the FY02 contract option were completed 4th Qtr FY03.

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	975																			
Outputs	957		4	14																

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		975
Outputs																		975

METHOD OF IMPLEMENTATION:	Production	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	17 Months
Contract Dates:	FY 2004		FY 2005		FY 2006
Delivery Date:	FY 2004		FY 2005		FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	975																		975	
Equipment	0	815.5		3.5		15.2		10.7		11.7		17.8		23.4		32.2				930.0
Equipment, Nonrecurring	0	245.6																		245.6
Engineering Change Orders	0	116.6																		116.6
Matrix Personnel Support	0	101.5		1.3		1.5		1.1		0.7		0.7		0.5		0.5				107.8
Data/Other	0	18.9		0.1		0.5		0.6		0.4		0.3		0.3		0.3				21.4
Training Equipment	0	14.1																		14.1
Vehicular Intercom System	0	11.3																		11.3
Project Mgmt Admin	0	27.3		1.7		2.0		2.0		2.0		2.0		1.8		1.5				40.3
Fielding	0	34.4		3.2		4.0		1.0		0.3		1.2		1.0		1.0				46.1
System Improvements	0	3.9		7.2		11.2		3.0				6.7		6.4		6.6				45.0
Installation of Hardware	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																			
Total Installment	975	82.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	975	82.5
Total Procurement Cost		1471.6		17.0		34.4		18.4		15.1		28.7		33.4		42.1		0.0		1660.7

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	101.4	0.0	9.0	2.9	10.9	7.3	5.8					137.3
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	101.4	0.0	9.0	2.9	10.9	7.3	5.8					137.3
Initial Spares												
Total Proc Cost	101.4	0.0	9.0	2.9	10.9	7.3	5.8					137.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides for the procurement of the Field Artillery Ammunition Support Vehicle (FAASV) Materiel Change and FAASV Halon Replacement modifications (M992A2 Conversion). This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 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; Crew Halon replacement; Defense Advanced Global Positioning System Receiver (DAGR) integration; and Battery Guard System.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
FAASV Materiel Change (A2 Conversion)											
1-93-05-4457	Unclassified	107.5	2.6	9.1	5.4	5.9	0.0	0.0	0.0	0.0	130.5
FAASV Halon Replacement											
1-94-05-4477	Unclassified	3.1	0.2	1.8	2.0	0.0	0.0	0.0	0.0	0.0	7.1
Totals		110.6	2.8	10.9	7.4	5.9	0.0	0.0	0.0	0.0	137.6

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: FAASV Materiel Change (A2 Conversion) [MOD 1] 1-93-05-4457

MODELS OF SYSTEM AFFECTED: M992 and M992A1

DESCRIPTION/JUSTIFICATION:

The FAASV materiel change encompasses the previously approved FAASV HELP (Howitzer Extended Life Program) and Survivability Materiel Changes. The materiel change incorporates M109 Family of Vehicles improvements into the FAASV in order to maintain a common chassis. These improvements include the Low Heat Rejection/Cold Start Engine, improved XTG 411-4 Transmission, Reliability, and Maintainability (RAM) improvements to the cooling, electrical, and suspension systems, relocated heater and hydraulic reservoir, stronger fuel cell, and modifications to provide interoperability with the M109A6 Paladin Howitzer. The enhancements provided by the materiel change will permit the FAASV crew to operate in the same environment as the M109A6 Paladin. This means the operation and maintenance features will be common and the FAASV cold starting and RAM features will be comparable. The modifications to the rear door conveyor and propellant racks will improve M109A6 supportability. The total fleet quantity of M992A2s is 927. The Inputs/Outputs of 789 reflect prior year quantities of M992A0s and M992A1s that were converted to M992A2s. The quantity difference of 138 represents new production of M992A2s. FY03-FY06 funding is for system improvements necessary for the vehicle to operate and interface with other systems on the battlefield and supports the FAASV Recapitalization Program approved by Vice Chief of Staff Army on Sept 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Preliminary Design Review - 1QFY91
- Critical Design Review - 4QFY91
- Contractor Test and Evaluation - 2QFY93
- IPR Production Design - 3QFY93
- TDP Available - 3QFY93
- M992A2 First Delivery - 3QFY93
- M992A2 First Unit Equipped - 1QFY95

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	789																					
Outputs	789																					

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						789
Outputs																						789

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 24 Months PRODUCTION LEADTIME: 24 Months

Contract Dates: FY 2004 FY 2005 FY 2006

Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): FAASV Materiel Change (A2 Conversion) [MOD 1] 1-93-05-4457

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	789																			789	
Installation Kits	0	43.6																			43.6
Engineering	0	9.3		0.7		0.2															10.2
Government Support	0	3.6		0.5		1.1		0.9		0.9											7.0
Testing	0	0.3		0.2																	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	237	5.0			250	4.5	215	4.0	225	4.4										927	17.9
MACS Kits			219	1.0	400	3.2	105	0.4	70	0.5										794	5.1
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	789	25.5																		789	25.5
FY2003 Equip -- Kits	0		237	0.2																237	0.2
FY2004 Equip -- Kits	0				250	0.1															0.1
FY2005 Equip -- Kits	0						215	0.1													0.1
FY2006 Equip -- Kits	0								225	0.1											0.1
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	789	25.5	237	0.2	250	0.1	215	0.1	225	0.1		0.0		0.0		0.0		0.0		1026	26.0
Total Procurement Cost		107.5		2.6		9.1		5.4		5.9		0.0		0.0		0.0		0.0			130.5

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: FAASV 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.

These references mandate the replacement of Halon charged fire suppression systems to prevent ozone depletion. A common replacement agent engine compartment fire extinguishing system is required on 927 FAASV systems. FY97-99 funds have been appropriated to initiate the conversion process by replacing the fire suppression distribution system in the FAASV engine compartment with one suitable to both Halon and the selected alternate agent. FY03-05 funds have been appropriated to identify and swap out an alternative agent for the Automatic Fire Extinguishing System (AFES).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Preliminary Design Review - 1QFY98
- Critical Design Review - 1QFY98
- Joint Government Contractor Test and Evaluation - 1QFY98
- IPR Production Decision - 4QFY98
- TDP Available - 4QFY98
- First Unit Installed - 2QFY99

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	927																			
Outputs	927																			

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		927
Outputs																		927

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 3 Months

Contract Dates: FY 2004 FY 2005 FY 2006

Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	927																			927	
Installation Kits A	0	1.0																			1.0
Engineering Support	0	0.2																			0.2
Test	0	0.5																			0.5
Installation Kits B	0		54	0.2	425	1.3	448	1.4												927	2.9
Crew Compartment Non-Recurring	0					0.5		0.6													1.1
--	0																				
--	0																				
--	0																				
--	0																				
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	927	1.4																			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																				
Total Installment	927	1.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0			1.4
Total Procurement Cost		3.1		0.2		1.8		2.0		0.0		0.0		0.0		0.0		0.0			7.1

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	102	29	21	5								157
Gross Cost	260.6	76.4	59.8	51.6								448.4
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Net Proc (P-1)	260.6	76.4	59.8	51.6								448.4
Initial Spares	3.5											3.5
Total Proc Cost	264.2	76.4	59.8	51.6								452.0
Flyaway U/C												
Wpn Sys Proc U/C		2.6	2.8	10.3								

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.

FY03 is the final year for the M88A2 due to termination. FY03 procures five M88A2 systems and accomplishes all program activities from FY03 through FY05. Program activities include manufacture and fielding of the FY02-FY03 vehicles, fleet retrofit for Block Modifications/MWOs and orderly closure/transition of the program office.

This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 program not funded due to program termination.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Vehicle Manufacturing - Contractor		A			10170	5	2034							
Vehicle Manufacturing - GFE					1625									
Contractor Engineering					6102									
Engineering Change Orders					1135									
Project Management - Core					4663									
Project Management - OGA					1813									
Transportation					241									
Fielding (TPF & NET)					3126									
Testing (incl analysis & development)					1750									
Depot Maintenance - Premodification					556									
Fleet Cut-in/Retrofit for Modifications					12759									
Track and Cleat Engineering & Testing					3250									
Depot Maintenananc Work Requirements					2067									
Refurbishment of Facility Vehicles					2343									
Total					51600									

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2004

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
Vehicle Manufacturing - Contractor										
FY 2002	UDLP York, PA	SS-FFP	TACOM	APR 02	JUL 03	21	1872	YES		NOV 01
FY 2003	UDLP York, PA	SS-FFP	TACOM	Dec 03	Aug 04	5	2034	YES		AUG 03
Vehicle Manufacturing - GFE										
FY 2002	VARIOUS	RQN/PO	VARIOUS	VARIOUS	VARIOUS			YES		
FY 2003	VARIOUS	RQN/PO	VARIOUS	VARIOUS	VARIOUS			YES		

REMARKS: FY02: Production material with greater than 12 month lead time was awarded in Nov 01 with definitive production contract being awarded in Apr 02.

FY03: Production material with greater than 12 months leadtime awarded Aug 03, with definitive production contract being awarded in Oct 03.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	148.6		4.0	9.9								162.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	148.6		4.0	9.9								162.5
Initial Spares												
Total Proc Cost	148.6		4.0	9.9								162.5
Flyaway U/C												
Wpn Sys 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.

-Common Chassis Modification: Completes application of seven modifications required to the balance of the AVLB fleet requiring them.

-Hydraulic/Electrical Modification: Currently outdated and unreliable hydraulic and electrical systems will be updated from their original 1950s based technology configuration with proven current state of practice technology based components. Average age of fleet is 29 years.

This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 program not funded.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Hydraulic/Electrical Upgrade											
0-00-00-0000	Oper Capability	3.2	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1
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
Totals		152.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	665.7	55.5	80.6	159.4	106.9	116.9	451.4	366.1	339.9	297.6	1993.9	4633.9
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	665.7	55.5	80.6	159.4	106.9	116.9	451.4	366.1	339.9	297.6	1993.9	4633.9
Initial Spares												
Total Proc Cost	665.7	55.5	80.6	159.4	106.9	116.9	451.4	366.1	339.9	297.6	1993.9	4633.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M1 Abrams Tank (MOD) program applies user-approved modifications to fielded Abrams tanks. Notable survivability improvements include Frontal Armor and Turret Side Armor upgrades as well as the Alternate Auxiliary Power Unit (AAPU). The Abrams AGT 1500 Engine Improvement program is the centerpiece of efforts to address the growing problem of parts obsolescence. 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. The sole environmental improvement is the effort to replace halon, a known ozone-depleting chemical, in the tank's fire extinguishing systems. These modifications collectively support the current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 funding procures numerous components and required safety modifications in support of the M1A1 and M1A2 SEP tanks. These modifications correct or alleviate tank operational deficiencies identified during testing, training exercises, or in combat.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Prior Year Closed Mod's											
0-00-00-0000		528.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	528.5
Abrams Field Upgrades											
1-97-05-4534	Operational	25.3	1.7	1.1	1.3	1.4	1.0	1.2	1.3	1419.3	1453.6
Halon Replacement											
1-92-05-4411	Environmental	9.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	35.2	50.8
Driver's Hatch Interlock (DHI)											
1-97-05-4520	Safety	28.1	2.0	4.1	5.2	5.2	5.4	2.8	0.5	0.0	53.3
Precision Lightweight GPS Receiver (PLGR)											
1-92-05-4417	Operational	2.9	0.9	0.9	0.9	0.9	0.9	0.6	0.0	0.0	8.0
Block G Mods											
1-99-05-4554	Operational	57.1	1.4	1.6	1.5	1.5	1.4	1.2	0.9	1.4	68.0
Pulse Jet System (PJS)											
1-92-05-4475	Operational	49.4	6.3	6.1	6.2	6.3	6.4	0.8	0.0	0.0	81.5
NBC Fire Prevention											
1-97-05-4524	Safety	3.3	2.7	7.3	6.0	5.7	7.5	7.2	2.0	0.0	41.7
Hand-Held Fire Extinguisher (HHFE)											
1-97-05-4525	Safety	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Frontal Armor											
00000000000	Operational	9.1	19.9	49.3	22.5	55.0	41.8	57.4	49.5	0.0	304.5

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Improved Turret Side Armor											
1-99-05-4555	Operational	1.5	0.5	2.5	3.4	8.8	11.5	11.6	4.8	0.0	44.6
Eye-Safe Laser Rangefinder (ESLRF)											
1-99-05-4563	Safety	11.6	7.5	7.6	7.8	10.7	14.1	8.0	1.4	0.0	68.7
Electronics Obsolescence											
1-00-05-0015	Operational	45.7	22.1	20.1	20.5	20.8	0.0	0.0	0.0	0.0	129.2
Alternate Auxiliary Power Unit (AAPU)											
1-98-05-4545	Operational	1.5	0.0	0.0	1.0	9.7	19.8	19.1	11.0	0.0	62.1
Engineering Support											
0-00-00-0000	Operational	27.9	0.3	0.0	22.5	20.5	24.5	24.5	24.5	209.9	354.6
M829E3 Ballistic Solution											
1-01-05-0011	Operational	0.0	0.0	2.0	2.4	2.5	2.7	0.6	0.0	0.0	10.2
AGT1500 Engine Improvement											
0-00-00-0000	Operational	0.0	0.0	0.0	0.0	290.8	193.0	185.6	199.8	297.1	1166.3
Other Safety or Environmental Mods											
0-00-00-0000	Safety	0.0	0.0	1.4	3.1	3.4	3.6	3.3	0.6	0.0	15.4
Other Operational Enhancements											
0-00-00-0000	Operational	0.0	0.0	2.1	3.7	1.8	1.3	1.2	0.4	0.0	10.5
Blue Force Tracking											
0-00-00-0000	Operational	0.0	0.0	0.0	8.1	5.6	30.4	14.0	0.0	31.0	89.1

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Prior Year Closed Mod's [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: All

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2008				FY 2009				FY 2010				FY 2011				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 2004

FY 2005

FY 2006

Delivery Date: FY 2004

FY 2005

FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Prior Year Closed Mod's [MOD 1] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other		528.5																		528.5
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
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
Total Procurement Cost		528.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		528.5

INDIVIDUAL MODIFICATION

Date: February 2004

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. These is no set quantity; upgrades will be applied as needed for the duration of Abrams fielding.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2008				FY 2009				FY 2010				FY 2011				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:

Contract Dates: FY 2004
 Delivery Date: FY 2004

ADMINISTRATIVE LEADTIME:

0 Months

PRODUCTION LEADTIME:

0 Months

FY 2004
 FY 2005
 FY 2005

FY 2006
 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits		25.3																		25.3
FY 2003 -- Kits				1.7																1.7
FY 2004 Equip -- Kits						1.1														1.1
FY 2005 Equip -- Kits								1.3												1.3
FY 2006 Equip -- Kits									1.4											1.4
FY 2007 Equip -- Kits										1.0										1.0
FY 2008 Equip -- Kits											1.2									1.2
FY 2009 Equip -- Kits												1.3								1.3
TC Equip- Kits																	1419.3			1419.3
Total Installment		25.3		1.7		1.1		1.3		1.4		1.0		1.2		1.3		1419.3		1453.6
Total Procurement Cost		25.3		1.7		1.1		1.3		1.4		1.0		1.2		1.3		1419.3		1453.6

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Halon Replacement [MOD 3] 1-92-05-4411

MODELS OF SYSTEM AFFECTED: IPM1 =818 M1A1 = 4327 M1A2 = 588 TOTAL = 5733

DESCRIPTION/JUSTIFICATION:

This modification is for replacing halon, a known ozone-depleting chemical, in the Abrams tank fire extinguishing systems located in the engine compartment. The new, dry powder, fire suppressant has not been approved for the crew compartment fire extinguishers due to safety concerns. Halon gas will continue to be used for the crew compartments until a suitable substitute is selected and installed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 1Q93....ACCOMPLISHED: 1Q93
 Critical Design Review.....PLANNED: 1Q94....ACCOMPLISHED: 3Q94
 Contractor Test & EvaluationPLANNED: 2Q96....ACCOMPLISHED: 2Q96
 Development Test & Evaluation.....PLANNED: 3Q96....ACCOMPLISHED: 4Q96
 Initial Operational Test & EvalPLANNED: 2Q97....ACCOMPLISHED: 3Q97
 IPR Production Decision.....PLANNED: 4Q97....ACCOMPLISHED: 4Q97
 Tech Data Package Available.....PLANNED: 1Q01....ACCOMPLISHED: 1Q01

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0	28	29	29	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32
Outputs					28	29	29	29	31	31	31	32	31	31	31	32	31	31	31	32

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	31	31	31	32	31	31	31	32									4868	5733
Outputs	31	31	31	32	31	31	31	32									4993	5733

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2004 MAY 04 FY 2005 MAY 05 FY 2006 MAY 06
 Delivery Date: FY 2004 NOV 04 FY 2005 NOV 05 FY 2006 NOV 06

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Halon Replacement [MOD 3] 1-92-05-4411

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	0		115		125		125		125		125		125		125		4868		5733		
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0	9.9		0.8		0.5		0.5		0.5		0.5		0.5		0.5		20.7		34.4	
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits																					
FY2003 Equip -- Kits	0																				
FY2004 Equip -- Kits	0				115	0.3														115	0.3
FY2005 Equip -- Kits	0						125	0.3												125	0.3
FY2006 Equip -- Kits	0								125	0.3										125	0.3
FY2007 Equip -- Kits	0									125	0.3									125	0.3
FY2008 Equip -- Kits	0											125	0.3							125	0.3
FY2009 Equip -- Kits	0													125	0.4					125	0.4
TC Equip- Kits	0															4993	14.5		4993	14.5	
Total Installment	0	0.0		0.0	115	0.3	125	0.3	125	0.3	125	0.3	125	0.3	125	0.4	4993	14.5	5733	16.4	
Total Procurement Cost		9.9		0.8		0.8		0.8		0.8		0.8		0.8		0.9		35.2		50.8	

INDIVIDUAL MODIFICATION

Date: February 2004

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

MODELS OF SYSTEM AFFECTED: IPM1 = 818, M1A1 = 4327, M1A2 = 435 TOTAL = 5580

DESCRIPTION/JUSTIFICATION:

The Driver's Hatch Interlock (DHI) is a safety 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 MILESTONES:

Preliminary Design Review.....PLANNED: 2Q96 ACCOMPLISHED: 1Q93
 Critical Design Review.....PLANNED: 3Q96 ACCOMPLISHED: 3Q94
 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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	3308	33	33	34	35	123	123	124	125	123	123	124	125	123	123	124	125	123	123	124	125
Outputs	2950	89	89	90	90	33	33	34	35	123	123	124	125	123	123	124	125	123	123	124	125

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	123	34																			5580
Outputs	123	123	124	125	123	34															5580

METHOD OF IMPLEMENTATION: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2004 MAR 04 FY 2005 MAR 05 FY 2006 MAR 06
 Delivery Date: FY 2004 SEP 04 FY 2005 SEP 05 FY 2006 SEP 06

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	3308		135		495		495		495		495		157						5580	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment		21.0		1.5		3.7		3.8		3.8		3.9		1.3						39.0
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	2950	7.1																	2950	7.1
FY2003 Equip -- Kits	0		358	0.5															358	0.5
FY2004 Equip -- Kits	0				135	0.4													135	0.4
FY2005 Equip -- Kits	0						495	1.4											495	1.4
FY2006 Equip -- Kits	0								495	1.4									495	1.4
FY2007 Equip -- Kits	0										495	1.5							495	1.5
FY2008 Equip -- Kits	0												495	1.5					495	1.5
FY2009 Equip -- Kits	0														157	0.5			157	0.5
TC Equip- Kits	0																			
Total Installment	2950	7.1	358	0.5	135	0.4	495	1.4	495	1.4	495	1.5	495	1.5	157	0.5		0.0	5580	14.3
Total Procurement Cost		28.1		2.0		4.1		5.2		5.2		5.4		2.8		0.5		0.0		53.3

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Precision Lightweight GPS Receiver (PLGR) [MOD 5] 1-92-05-4417

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 1324 M1A2 = 0 TOTAL = 1324

DESCRIPTION/JUSTIFICATION:

This modification is for the installation kit needed to mount the Precision Lightweight Global Positioning System Receiver (PLGR) on the Abrams tank. PLGR is used to derive position within 10 meters by receiving and interpreting satellite signals.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q91.....ACCOMPLISHED: 2Q91
 Critical Design Review.....PLANNED: 4Q91.....ACCOMPLISHED: 4Q91
 Contractor Test & Eval.....PLANNED: 3Q93.....ACCOMPLISHED: 4Q93
 Development Test & Eval.....PLANNED: 1Q94.....ACCOMPLISHED: 3Q94
 Initial Operational Test & Eval..PLANNED: 4Q94.....ACCOMPLISHED: 1Q95
 IPR Production Decision.....PLANNED: 4Q94.....ACCOMPLISHED: 2Q95
 TDP Available.....PLANNED: 2Q99.....ACCOMPLISHED: 3Q99

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	699	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32
Outputs	564	33	33	34	35	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						1324
Outputs	31	31	31	32																		1324

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 5 Months
 Contract Dates: FY 2004 NA FY 2005 NA FY 2006 NA
 Delivery Date: FY 2004 NA FY 2005 NA FY 2006 NA

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Precision Lightweight GPS Receiver (PLGR) [MOD 5] 1-92-05-4417

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0																			
Installation Kits	699		125		125		125		125		125								1324	
Installation Kits, Nonrecurring	0																			
Equipment	0	1.6		0.2		0.3		0.3		0.3		0.3								3.0
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	564	1.3																	564	1.3
FY2003 Equip -- Kits	0		135	0.7															135	0.7
FY2004 Equip -- Kits	0				125	0.6													125	0.6
FY2005 Equip -- Kits	0						125	0.6											125	0.6
FY2006 Equip -- Kits	0								125	0.6									125	0.6
FY2007 Equip -- Kits	0										125	0.6							125	0.6
FY2008 Equip -- Kits	0												125	0.6					125	0.6
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	564	1.3	135	0.7	125	0.6	125	0.6	125	0.6	125	0.6	125	0.6		0.0		0.0	1324	5.0
Total Procurement Cost		2.9		0.9		0.9		0.9		0.9		0.9		0.6		0.0		0.0		8.0

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Block G Mods [MOD 6] 1-99-05-4554

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL = 4327

DESCRIPTION/JUSTIFICATION:

This modification is to install nine individual modifications as a group. Each modification corrects a problem found during live-fire testing or during combat in Operation Desert Storm. The block consists of the following modifications: Independent manual blaster, Ballistic rims for driver and loader hatches, AFES wiring harness Ballistic protection, Driver's hatch latch, Improved gunner's station, Smoke generator fuel line, Ammunition door latch, Battlefield override, and Driver's periscope retention. Quantities are not shown because fielded tanks require varying numbers of the Block G components due to production configuration differences.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Various - Milestones differ for individual Modifications noted above.

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2004 FY 2005 FY 2006
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Block G Mods [MOD 6] 1-99-05-4554

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0																			
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0	16.8	0.3		0.7		0.7		0.7		0.6		0.5		0.5		0.7			21.5
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0	40.3																		40.3
FY2003 Equip -- Kits	0		1.1																	1.1
FY2004 Equip -- Kits	0				0.9															0.9
FY2005 Equip -- Kits	0						0.8													0.8
FY2006 Equip -- Kits	0							0.8												0.8
FY2007 Equip -- Kits	0									0.8										0.8
FY2008 Equip -- Kits	0											0.7								0.7
FY2009 Equip -- Kits	0													0.4						0.4
TC Equip- Kits	0																0.7			0.7
Total Installment	0	40.3		1.1		0.9		0.8		0.8		0.8		0.7		0.4		0.7		46.5
Total Procurement Cost		57.1		1.4		1.6		1.5		1.5		1.4		1.2		0.9		1.4		68.0

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Pulse Jet System (PJS) [MOD 7] 1-92-05-4475

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 1001 M1A2 = 588 TOTAL = 1589

DESCRIPTION/JUSTIFICATION:

PJS improves the engine air filtration system used on the Abrams tanks by using air pressure to remove dust from air filters. This reduces operating costs by reducing the need for scheduled maintenance.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q92.....ACCOMPLISHED: 2Q92
 Critical Design Review.....PLANNED: 3Q92.....ACCOMPLISHED: 3Q92
 Contractor Test & Eval.....PLANNED: 3Q93.....ACCOMPLISHED: 3Q93
 Development Test & Eval.....PLANNED: 3193.....ACCOMPLISHED: 3Q93
 Initial Operational Test & Eval.....PLANNED: 4Q93.....ACCOMPLISHED: 4Q93
 IPR Production Decision.....PLANNED: 4Q93.....ACCOMPLISHED: 4Q93
 TDP Available.....PLANNED: 2Q96.....ACCOMPLISHED: 2Q96

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	964	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32
Outputs	829	33	33	34	35	31	31	31	32	31	31	31	32	31	31	31	32	31	31	31	32

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1589
Outputs	31	31	31	32														1589

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 8 Months
 Contract Dates: FY 2004 NA FY 2005 NA FY 2006 NA
 Delivery Date: FY 2004 NA FY 2005 NA FY 2006 NA

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Pulse Jet System (PJS) [MOD 7] 1-92-05-4475

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	964		125		125		125		125		125								1589	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0	45.0		5.5		5.4		5.4		5.5		5.6								72.4
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Testing	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	829	4.4																	829	4.4
FY2003 Equip -- Kits	0		135	0.8															135	0.8
FY2004 Equip -- Kits	0				125	0.7													125	0.7
FY2005 Equip -- Kits	0						125	0.8											125	0.8
FY2006 Equip -- Kits	0								125	0.8									125	0.8
FY2007 Equip -- Kits	0										125	0.8							125	0.8
FY2008 Equip -- Kits	0												125	0.8					125	0.8
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	829	4.4	135	0.8	125	0.7	125	0.8	125	0.8	125	0.8	125	0.8		0.0		0.0	1589	9.1
Total Procurement Cost		49.4		6.3		6.1		6.2		6.3		6.4		0.8		0.0		0.0		81.5

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: NBC Fire Prevention [MOD 8] 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 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 MILESTONES:

Items described will have varying milestones.

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2008				FY 2009				FY 2010				FY 2011				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: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2004 FY 2005 FY 2006
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): NBC Fire Prevention [MOD 8] 1-97-05-4524

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity																				
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0	3.0		2.1		6.0		3.1		4.4		5.7		4.9						29.2
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0	0.3																		0.3
FY2003 Equip -- Kits	0			0.6																0.6
FY2004 Equip -- Kits	0					1.3														1.3
FY2005 Equip -- Kits	0							2.9												2.9
FY2006 Equip -- Kits	0									1.3										1.3
FY2007 Equip -- Kits	0											1.8								1.8
FY2008 Equip -- Kits	0													2.3						2.3
FY2009 Equip -- Kits	0															2.0				2.0
TC Equip- Kits	0																			
Total Installment	0	0.3		0.6		1.3		2.9		1.3		1.8		2.3		2.0		0.0		12.5
Total Procurement Cost		3.3		2.7		7.3		6.0		5.7		7.5		7.2		2.0		0.0		41.7

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Hand-Held Fire Extinguisher (HHFE) [MOD 9] 1-97-05-4525

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 3750, M1A2 = 0 TOTAL = 3750

DESCRIPTION/JUSTIFICATION:

This modification will replacing halon, a known ozone-depleting chemical, in the Abrams tank crew fire extinguishers. Halon gas will continue to be used in crew compartment fire extinguishers until a safe substitute is selected and installed. As 4 units are required per tank, the procurement quantity of 15,000 will equip 3,750 active Army tanks. This is a simple 1 for 1 replacement so there is no installation schedule/cost.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q97.....ACCOMPLISHED: 2Q97
 Critical Design Review.....PLANNED: 2Q98.....ACCOMPLISHED: 2Q98
 Initial Operational Test & Eval.....PLANNED: 4Q98.....ACCOMPLISHED: 4Q98
 IPR Production Decision.....PLANNED: 2Q99.....ACCOMPLISHED: 2Q99
 TDP Available.....PLANNED: 4Q04

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0	15000																		
Outputs	0																			

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		15000
Outputs																		

METHOD OF IMPLEMENTATION: By Units ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2004 NA FY 2005 NA FY 2006 NA
 Delivery Date: FY 2004 NA FY 2005 NA FY 2006 NA

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Hand-Held Fire Extinguisher (HHFE) [MOD 9] 1-97-05-4525

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity			15000																15000	
Installation Kits																				
Installation Kits, Nonrecurring Equipment				2.0																2.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0		0.0		0.0		0.0												
Total Procurement Cost		0.0		2.0		0.0		0.0		2.0										

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Frontal Armor [MOD 10] 00000000000

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 285 M1A2 = 0 TOTAL: = 285

DESCRIPTION/JUSTIFICATION:

This funding is needed for Department of Energy (DOE) armor production. Note that application costs are included in the procurement cost.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0			1	11	11	11	12	26	26	26	26	33	34	34	34	18	19	19	19
Outputs	0							1	11	11	11	12	26	26	26	26	33	34	34	34

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	18	19	19	19																	435
Outputs	18	19	19	19	18	19	19	19													435

METHOD OF IMPLEMENTATION: OGA ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 10 Months
 Contract Dates: FY 2004 JUL 03 FY 2005 JUL 04 FY 2006 JUL 05
 Delivery Date: FY 2004 SEP 04 FY 2005 SEP 04 FY 2006 SEP05

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Frontal Armor [MOD 10] 0000000000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	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	9.1	1	19.9	45	49.3	104	22.5	135	55.0	75	41.8	75	57.4		49.5			435	304.5
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
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																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		9.1		19.9		49.3		22.5		55.0		41.8		57.4		49.5		0.0		304.5

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Improved Turret Side Armor [MOD 11] 1-99-05-4555

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 0, M1A2 = 325 TOTAL = 325

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) will be procured in GA0730, System Enhancement PGM: SEP M1A2.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	41				10	11	11	11	10	11	11	11	63	63	63	63	63	64	64	64
Outputs	16	6	6	6	7				10	11	11	11	22	22	22	22	51	52	52	52

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	52	52	53	53													0	844
Outputs	63	64	64	64	52	52	53	53										844

METHOD OF IMPLEMENTATION: Contr Team ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 13 Months
 Contract Dates: FY 2004 OCT 03 FY 2005 OCT 04 FY 2006
 Delivery Date: FY 2004 APR 05 FY 2005 APR 06 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Improved Turret Side Armor [MOD 11] 1-99-05-4555

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	41				43		43		252		255		210						844	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0	1.5				2.5	2.5		6.9		6.9		5.8							26.1
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	16																		16	
FY2003 Equip -- Kits	0		25	0.5															25	0.5
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0						43	0.9											43	0.9
FY2006 Equip -- Kits	0								88	1.9									88	1.9
FY2007 Equip -- Kits	0										207	4.6							207	4.6
FY2008 Equip -- Kits	0												255	5.8					255	5.8
FY2009 Equip -- Kits	0														210	4.8			210	4.8
TC Equip- Kits	0																			
Total Installment	16	0.0	25	0.5		0.0	43	0.9	88	1.9	207	4.6	255	5.8	210	4.8		0.0	844	18.5
Total Procurement Cost		1.5		0.5		2.5		3.4		8.8		11.5		11.6		4.8		0.0		44.6

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Eye-Safe Laser Rangefinder (ESLRF) [MOD 12] 1-99-05-4563

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 2655 M1A2 = 547 TOTAL = 3202

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 MILESTONES:

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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	547	123	124	124	124	123	124	124	124	123	124	124	124	123	124	124	124	123	124	124
Outputs	412	123	124	124	124	123	124	124	124	123	124	124	124	63	64	64	64	93	94	94

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	45	45	45	45																	3202
Outputs	123	124	124	124	45	45	45	45													3202

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 2004 NOV 03 FY 2005 NOV 04 FY 2006 NOV 05
 Delivery Date: FY 2004 DEC 04 FY 2005 DEC 05 FY 2006 DEC 06

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Eye-Safe Laser Rangefinder (ESLRF) [MOD 12] 1-99-05-4563

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	547		495		495		495		495		495		180							3202	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0	9.8		6.4		6.3		6.4		9.6		11.3		4.2							54.0
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	412	1.8																		412	1.8
FY2003 Equip -- Kits	0		495	1.1																495	1.1
FY2004 Equip -- Kits	0				495	1.3														495	1.3
FY2005 Equip -- Kits	0						495	1.4												495	1.4
FY2006 Equip -- Kits	0								255	1.1										255	1.1
FY2007 Equip -- Kits	0										375	2.8								375	2.8
FY2008 Equip -- Kits	0												495	3.8						495	3.8
FY2009 Equip -- Kits	0														180	1.4				180	1.4
TC Equip- Kits	0																				
Total Installment	412	1.8	495	1.1	495	1.3	495	1.4	255	1.1	375	2.8	495	3.8	180	1.4		0.0		3202	14.7
Total Procurement Cost		11.6		7.5		7.6		7.8		10.7		14.1		8.0		1.4		0.0			68.7

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Electronics Obsolescence [MOD 13] 1-00-05-0015

MODELS OF SYSTEM AFFECTED: M1A1

DESCRIPTION/JUSTIFICATION:

The M1A1 electronics uses 1980s or earlier technology. The turret/Hull network boxes (RxNBs) are key electrical system components with numerous obsolete parts that may be replaced only through cannibalization of discarded components. Cannibalization is not a viable means to sustain the Abrams tanks until 2030. Replacing the analog RxNBs with new digital units eliminates the associated obsolescence and makes it easy to add Embedded Diagnostics (ED) to support the Force XXI maintenance structure.

There are no quantity/year specifics because component requirements vary by unit and sometimes by tank. Installation costs are built into the Procurement costs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Redesigned TNB: Preliminary Design Review...**PLANNED: 2Q98....ACCOMPLISHED: 2Q98**
 Critical Design Review.....**PLANNED: 2Q00....ACCOMPLISHED: 2Q00**
 Developmental Test & Eval...**PLANNED: 2Q00....ACCOMPLISHED: 2Q00**
 IPR Decision.....**PLANNED: 1Q01....ACCOMPLISHED: 2Q01**
 Redesigned HNB: Preliminary Design Review...**PLANNED: 2Q00....ACCOMPLISHED: 2Q00**
 Critical Design Review.....**PLANNED: 1Q01....ACCOMPLISHED: 2Q01**
 Developmental Test & Eval...**PLANNED: 1Q01....ACCOMPLISHED: 2Q01**
 IPR Decision.....**PLANNED: 2Q01....ACCOMPLISHED: 3Q01**

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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: Contractor Teams. ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 8 Months
 Contract Dates: FY 2004 DEC 03 FY 2005 DEC 04 FY 2006 DEC 05
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Electronics Obsolescence [MOD 13] 1-00-05-0015

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0																			
Installation Kits	0	24.4		22.1		20.1		20.5		20.8										107.9
Installation Kits, Nonrecurring	0	21.3																		21.3
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Contractor Support	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
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																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		45.7		22.1		20.1		20.5		20.8		0.0		0.0		0.0		0.0		129.2

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Alternate Auxiliary Power Unit (AAPU) [MOD 14] 1-98-05-4545

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 0, M1A2 = 600 TOTAL = 600

DESCRIPTION/JUSTIFICATION:

This modification will allow the M1A2 SEP tank's on-board computer systems to be operated without relying on the main engine. This is particularly useful when the tank is in "silent watch" mode since it's more difficult for the enemy to detect the tanks audible and heat signatures.

Previous program efforts on the Under Armor Auxiliary Power Unit (UAAPU) were discontinued because the system failed to meet M1A2 SEP tank operational requirements.

Note that installation is included in the hardware cost.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review PLANNED: 2Q04 ACCOMPLISHED:
 Critical Design Review PLANNED: 3Q04 ACCOMPLISHED:
 IOTE PLANNED: 3Q04 ACCOMPLISHED:
 IPR Production Decision PLANNED: 4Q04 ACCOMPLISHED:
 TDP Available PLANNED: 1Q05 ACCOMPLISHED:
 Limited Production Award PLANNED: 2Q05 ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0									4	4	4	30	30	30	30	60	60	60	60
Outputs	0												3	3	3	3	30	30	30	30

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	57	57	57	57	33	32	32	32													729
Outputs	60	60	60	60	57	57	57	57	33	32	32	32									729

METHOD OF IMPLEMENTATION: Contractor Teams ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2004 Jan 05 FY 2005 Dec 05 FY 2006 Dec 06
 Delivery Date: FY 2004 Oct 05 FY 2005 Oct 06 FY 2006 Oct 07

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Alternate Auxiliary Power Unit (AAPU) [MOD 14] 1-98-05-4545

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0						12		120		240		228		129				729	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0						1.0		9.7		19.8		19.1		11.0				60.6	
Equipment, Nonrecurring	0	1.5																	1.5	
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
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																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		1.5		0.0		0.0		1.0		9.7		19.8		19.1		11.0		0.0		62.1

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Engineering Support [MOD 15] 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 GA0750 [M1A2 SEP Production] and GA0730 [M1A2 SEP Retrofit].

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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:

Contract Dates:

FY 2004

ADMINISTRATIVE LEADTIME:

0 Months

PRODUCTION LEADTIME:

0 Months

Delivery Date:

FY 2004

FY 2005

FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Engineering Support [MOD 15] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	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	27.9		0.3				22.5		20.5		24.5		24.5		24.5		209.9		354.6
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
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																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		27.9		0.3		0.0		22.5		20.5		24.5		24.5		24.5		209.9		354.6

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: M829E3 Ballistic Solution [MOD 16] 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 M829E3 kinetic energy (KE) round for the 120mm main gun. This includes software changes and modifying the existing Gunner's Auxiliary Sight (GAS) to include an appropriate reticle to be able to fire the M829E3. The new ammunition capability will significantly enhance the tank's ability to penetrate the enemy's armor at extended ranges.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				
	Totals	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	307	307	307	307	308
Outputs	0									409	409	410	307	307	307	308	307	307	307	307	308

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					4915
Outputs	307	307	307	308																	4915

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 8 Months
 Contract Dates: FY 2004 Mar 04 FY 2005 Nov 04 FY 2006 Nov 05
 Delivery Date: FY 2004 Feb 05 FY 2005 Oct 05 FY 2006 Oct 06

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): M829E3 Ballistic Solution [MOD 16] 1-01-05-0011

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0				1228		1229		1229		1229								4915	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0					2.0		2.0		2.0		2.1								8.1
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0						1228	0.4											1228	0.4
FY2006 Equip -- Kits	0								1229	0.5									1229	0.5
FY2007 Equip -- Kits	0									1229	0.6								1229	0.6
FY2008 Equip -- Kits	0											1229	0.6						1229	0.6
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0	1228	0.4	1229	0.5	1229	0.6	1229	0.6		0.0		0.0	4915	2.1
Total Procurement Cost		0.0		0.0		2.0		2.4		2.5		2.7		0.6		0.0		0.0		10.2

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: AGT1500 Engine Improvement [MOD 17] 0-00-00-0000

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 engine. It will equip the active component Abrams fleet with a more reliable and easier to repair engine.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Define Baseline Configuration and Process.....Planned 2Q05
 Production Decision.....Planned 1Q06

Installation Schedule:

	Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
		Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Inputs															145	146	146	88	87	87	87
Outputs																		145	146	146	

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs	84	84	83	83	102	101	101	101										565		2090
Outputs	88	87	87	87	84	84	83	83	102	101	101	101						565		2090

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 15 Months
 Contract Dates: FY 2004 Jan 06 FY 2005 Dec 06 FY 2006 Dec 07
 Delivery Date: FY 2004 Mar 07 FY 2005 Mar 08 FY 2006 Mar 09

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): AGT1500 Engine Improvement [MOD 17] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity									437		349		334		405		565		2090	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment									290.8		193.0		185.6		199.8		297.1		1166.3	
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
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
Total Procurement Cost		0.0		0.0		0.0		0.0		290.8		193.0		185.6		199.8		297.1		1166.3

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Other Safety or Environmental Mods [MOD 18] 0-00-00-0000

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 and an electronic muzzle reference sensor which provides a non-radioactive alternative to the current tritium based method of illumination for the tank reticle.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Items described above will have varying milestones.

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals							250	250	250	250	250	250	250	250	250	250	250	250	250	250
Inputs																				
Outputs											250	250	250	250	250	250	250	250	250	250

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	250	250	200	200																	4400
Outputs	250	250	250	250	250	250	200	200													4400

METHOD OF IMPLEMENTATION:	Contractor/Depot	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2004 Apr 04	FY 2005 Dec 04		FY 2006 Dec 05	
Delivery Date:	FY 2004 Apr 05	FY 2005 Dec 05		FY 2006 Dec 06	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Other Safety or Environmental Mods [MOD 18] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity					500		1000		1000		1000		900						4400	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					1.4		2.8		2.8		2.9		2.6							12.5
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits							500	0.3											500	0.3
FY 2005 Equip -- Kits									1000	0.6								1000	0.6	
FY 2006 Equip -- Kits											1000	0.7						1000	0.7	
FY 2007 Equip -- Kits													1000	0.7				1000	0.7	
FY 2008 Equip -- Kits														900	0.6			900	0.6	
FY 2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0	500	0.3	1000	0.6	1000	0.7	1000	0.7	900	0.6		0.0	4400	2.9
Total Procurement Cost		0.0		0.0		1.4		3.1		3.4		3.6		3.3		0.6		0.0		15.4

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Other Operational Enhancements [MOD 19] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M1A1, M1A2

DESCRIPTION/JUSTIFICATION:

This modification includes an added stowage bracket and cover to accommodate two M4 Carbines, a new odometer that eliminates the problem of loss of mileage records due to the resetting to zero of the current odometer when new software applications are applied to the SEP vehicle, and a method of reshaping barrels that will eliminate variations within gun tubes which will improve fleet accuracy.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Items described above will have varying milestones.

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs							250	250	250	250	250	250	250	250	250	250	250	250	250	250
Outputs											250	250	250	250	250	250	250	250	250	250

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	250	250	200	200																	4400
Outputs	250	250	250	250	250	250	200	200													4400

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 2004 Apr 04 FY 2005 Dec 04 FY 2006 Dec 05
 Delivery Date: FY 2004 Apr 05 FY 2005 Dec 05 FY 2006 Dec 06

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Other Operational Enhancements [MOD 19] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity					500		1000		1000		1000		900						4400	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					2.1		3.5		1.3		0.9		0.8							8.6
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits							500	0.2											500	0.2
FY 2005 Equip -- Kits									1000	0.5								1000	0.5	
FY 2006 Equip -- Kits											1000	0.4						1000	0.4	
FY 2007 Equip -- Kits													1000	0.4				1000	0.4	
FY 2008 Equip -- Kits														900	0.4			900	0.4	
FY 2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0	500	0.2	1000	0.5	1000	0.4	1000	0.4	900	0.4		0.0	4400	1.9
Total Procurement Cost		0.0		0.0		2.1		3.7		1.8		1.3		1.2		0.4		0.0		10.5

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Blue Force Tracking [MOD 20] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: All

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.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Engineering development.....Planned: 2Q03 Accomplished: 2Q03
 TM Completion.....4Q04
 MWO Completion.....4Q04

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs										33	33	34	17	17	17	17	90	90	91	91
Outputs													33	33	34		17	17	17	17

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	41	41	41	41													350	1044
Outputs	90	90	91	91	41	41	41	41									350	1044

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2004 Mar 05 FY 2005 Mar 06 FY 2006 Mar 07
 Delivery Date: FY 2004 Mar06 FY 2005 Mar 07 FY 2006 Mar 08

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Blue Force Tracking [MOD 20] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits							100	8.1	68	5.6	362	30.4	164	14.0			350	31.0	1044	89.1
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
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
Total Procurement Cost		0.0		0.0		0.0		8.1		5.6		30.4		14.0		0.0		31.0		89.1

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: SEP Retrofit for 3rd ACR [MOD 21] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M1A2

DESCRIPTION/JUSTIFICATION:

This mod upgrades M1A2 tanks for the 3rd Armored Cavalry Regiment 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 better microprocessors; color flat panel displays, more memory capacity, better Soldier-Machine Interface (SMI), and a new open operating system designed to run the Army's Common Operating Environment (ACOA) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Items described above will have varying milestones.

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs						7	7	7					7	7	7					

	FY 2008				FY 2009				FY 2010				FY 2011				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					21
Outputs																					21

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2004 Feb 04 FY 2005 FY 2006
 Delivery Date: FY 2004 Feb 05 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): SEP Retrofit for 3rd ACR [MOD 21] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment			21	91.3															21	91.3
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
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
Total Procurement Cost		0.0		91.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		91.3

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty		16	25	7	34	67						149
Gross Cost		54.8	98.6	85.2	180.1	292.2						710.8
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)		54.8	98.6	85.2	180.1	292.2						710.8
Initial Spares												
Total Proc Cost		54.8	98.6	85.2	180.1	292.2						710.8
Flyaway U/C												
Wpn Sys Proc U/C		3.4	3.9	12.2	5.3	4.4						

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 better microprocessors; color flat panel displays, more memory capacity, better Soldier-Machine Interface (SMI), and a new open operating system designed to run the Army's Common Operating Environment (ACOE) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology. This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 funding procures 67 M1A2 SEP Retrofits in support of 3d ACR. The SEP Program enhances the combat effectiveness of the Abrams Tank Fleet while maintaining the key elements of the tank industrial base.

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: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
SEP		A			27711	7	3959	123250	34	3625	244487	67	3650	
FLIR		A			4462	7	637	17000	34	500	34046	67	508	
ESLRF														
Improved Turret Side Armor					24015	803	30							
M1A2 Depot-Maintenance Pre-MOD					1378	7	197	6800	34	200	13619	67	203	
STS, TPF & ST/TS, Gov't Spt					27617			33000						
Total					85183			180050			292152			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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
SEP										
FY 2002	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun-02	Oct-03	25	2139			
FY 2003	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Feb 04	Feb 05	7	3959			
FLIR										
FY 2002	Various	SS/FFP	CECOM	Nov-01	Jun-03	25	494			
FY 2003	Various	SS/FFP	CECOM	Oct-03	Jun-04	7	637			
Improved Turret Side Armor										
FY 2003	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Feb 03	Aug 04	803	30			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
ABRAMS UPGRADE PROGRAM (GA0750)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	580	100	104	103								887
Gross Cost	3571.4	562.2	650.6	593.4	3.3							5380.9
Less PY Adv Proc	1325.0	273.8	256.5	209.2	0.0	0.0	0.0	0.0	0.0	0.0		2064.5
Plus CY Adv Proc	1698.6	172.8	193.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2064.5
Net Proc (P-1)	3945.1	461.2	587.1	384.2	3.3							5380.9
Initial Spares	59.0	14.7	15.3	9.9	5.4	11.4	5.4					121.1
Total Proc Cost	4004.1	475.9	602.4	394.1	8.7	11.4	5.4					5502.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This is the production program for the M1A2 System Enhancement Program (SEP) tank, the successor to the M1A2, which was the Army's first fully digital ground combat system. The prime contractor is using depot refurbished M1 tank hulls supplied by the Government. Therefore, for each M1A2 SEP tank produced, there will be a corresponding decrease in the Army's M1 tank inventory. SEP refers to a System Enhancement Package, which upgrades the M1A2's computer systems and its night vision capabilities. The first M1A2 SEP tank was delivered to the Government on 1 September 1999. The SEP tank has better microprocessors; color flat panel displays, more memory capacity, better Soldier-Machine Interface (SMI), and a new open operating system designed to run the Army's Common Operating Environment (ACOE) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology. This system supports the current transition path of the Transformation Campaign Plan (TCP).

Justification:

The FY 05 Abrams Upgrade Program continues fielding/spares support to previously procured vehicles.

FY 2003 includes supplemental funding of \$20.9M for the Abrams Upgrade Program.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Basic Vehicle		A			288221	103	2798							
2. Armor					44221	48	921							
3. H/TEU														
4. Engine DECU/PROSE					34771	103	338							
5. Transmission					31464	103	305							
6. Final Drive					1706	206	8							
7. Fire Control					3176	103	31							
8. Track					4284	16068	0							
9. Road Wheels					1799	3296	1							
10. Gun Mounts					3689	52	71							
11. Gun					22046	103	214							
12. Driver's Night Viewer														
13. Basic Issue Items					1283	103	12							
14. MILSTRIPS/RIK					491		5							
15. VIS					1490	103	14							
16. Special Tools & Test Sets					10091									
17. System Technical Support (STS)					13746			3317						
18. Government Support					23034									
19. Auxiliary Services					2944									
20. Testing					11390									
21. Transportation (FDT)					356									
22. Total Package Fielding					7418									
23. II Gen FLIR					63892	103	620							
24. Pre Mod Depot Maintenance					15335	103	149							
25. GDLS SEP-S														
Gross P-1 End Cost					586847			3317						
Less: Prior Year Adv Proc					202609									
Net P-1 Full Funding Cost					384238			3317						
Plus: P-1 CY Adv Proc														
Initial Spares					9882			5350			11442			
Total					394120			8667			11442			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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

Weapon System Type:

P-1 Line Item Nomenclature:

ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Basic Vehicle										
FY 2002	GDLS Sterling Hgts, MI	SS/FFP/M2	TACOM-Warren	Feb 01	Aug 02	104	2916	Yes		Sep 99
FY 2003	GDLS Sterling Hgts, MI	SS/FFP/M3	TACOM-Warren	Feb 02	Aug 03	103	2798	Yes		Sep 99
2. Armor										
FY 2002	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 01	Feb 02	121	596	NA		NA
FY 2003	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 02	Feb 03	48	921	NA		NA
4. Engine DECU/PROSE										
FY 2002	AlliedSignal Tucson, AZ	SS/FFP	TACOM-Warren	Jun 01	Feb 02	104	226	Yes		Sep 97
FY 2003	AlliedSignal Tucson, AZ	Option	TACOM-Warren	Aug 02	Feb 03	103	338	Yes		Sep 97
5. Transmission										
FY 2002	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Dec 00	Feb 02	104	199	Yes		Jun 99
FY 2003	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Mar 02	Feb 03	103	305	Yes		Jun 99
6. Final Drive										
FY 2002	LOC Performance, Inc Plymouth, MI	Option	TACOM-Warren	Feb 01	Feb 02	208	7	Yes		May 98
FY 2003	LOC Performance, Inc Plymouth, MI	Option	TACOM-Warren	Jul 02	Feb 03	206	8	Yes		May 98

REMARKS: /1 RIA produces 50% of gun mounts. The remainder are procured with the GDLS contract.

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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

Weapon System Type:

P-1 Line Item Nomenclature:

ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
7. Fire Control										
FY 2002	Various	Various	TACOM-ACALA	Various	Feb 02	104	31	Yes		Various
FY 2003	Various	Various	TACOM-ACALA	Various	Feb 03	103	31	Yes		Various
8. Track										
FY 2002	Goodyear Tire & Rubber Akron, OH	Option	TACOM-Warren	Mar 01	Feb 02	16224	0	Yes		Dec 97
FY 2003	Goodyear Tire & Rubber Akron, OH	C-FFP	TACOM-Warren	Aug 02	Feb 03	16068	0	Yes		
9. Road Wheels										
FY 2002	Red River Army Depot Texarkana, TX	WR		Mar 01	Feb 02	3328	1	Yes		Sep 98
FY 2003	Red River Army Depot Texarkana, TX	WR		Jul 02	Feb 03	3296	1	Yes		Sep 98
10. Gun Mounts										
FY 2002	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Feb 01	Feb 02	52	65	Yes		NA
FY 2003	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Feb 02	Feb 03	52	71	Yes		NA
11. Gun										
FY 2002	Watervliet Arsenal Watervliet, NY	WR		Feb 01	Feb 02	104	113	Yes		NA
FY 2003	Watervliet Arsenal Watervliet, NY	WR		Feb 02	Feb 03	103	214	Yes		NA

REMARKS: /1 RIA produces 50% of gun mounts. The remainder are procured with the GDLS contract.

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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

Weapon System Type:

P-1 Line Item Nomenclature:

ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
12. Driver's Night Viewer FY 2002	CECOM NICP Fort Monmouth, NJ	REQ		Feb 02	Feb 02	104	6	Yes		NA
13. Basic Issue Items FY 2002	TACOM-ACALA Rock Island, IL	WR		Feb 01	Feb 02	104	12	Yes		NA
FY 2003	TACOM-ACALA Rock Island, IL	WR		Jul 02	Feb 03	103	12	Yes		NA
14. MILSTRIPS/RIK FY 2002	NA	REQ		Various	Feb 02	104	6	Yes		NA
FY 2003	NA	REQ		Various	Feb 03		5	Yes		NA
15. VIS FY 2002	Grumman Aerospace Corp Bethpage, NY	REQ		Oct 00	Feb 02	104	12	Yes		Sep 91
FY 2003	Grumman Aerospace Corp Bethpage, NY	REQ		May 02	Feb 03	103	14	Yes		Sep 91
23. II Gen FLIR FY 2002	Various	Option	CECOM	Nov 00	Feb 02	104	623	Yes		Sep 96
FY 2003	Various	Option	CECOM	Nov 01	Feb 03	103	620	Yes		Sep 96

REMARKS: /1 RIA produces 50% of gun mounts. The remainder are procured with the GDLS contract.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	17.6	7.1	7.6	0.0	0.5	0.4	0.4	0.4	0.4	0.4		34.7
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	17.6	7.1	7.6	0.0	0.5	0.4	0.4	0.4	0.4	0.4		34.7
Initial Spares												
Total Proc Cost	17.6	7.1	7.6	0.0	0.5	0.4	0.4	0.4	0.4	0.4		34.7
Flyaway U/C												
Wpn Sys 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. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures organizational maintenance personnel with equipment essential 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.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	317.9	9.2	9.8	9.7	10.1	10.3	11.0	11.4	11.6	11.8		412.8
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	317.9	9.2	9.8	9.7	10.1	10.3	11.0	11.4	11.6	11.8		412.8
Initial Spares												
Total Proc Cost	317.9	9.2	9.8	9.7	10.1	10.3	11.0	11.4	11.6	11.8		412.8
Flyaway U/C												
Wpn Sys 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 the Layaway of Industrial Facilities for preserving equipment for the portions of Government owned plants no longer required for active production, but vital to surge or replacement effort in case of National need.

This effort supports the Current transition path of the Transformation Campaign Plan.

Justification:

FY05 supports Production Support Equipment Replacement and Modernization at the Lima Army Tank Plant, which supports various heavy tracked systems such as the M series of tanks. The funding is used to keep Government owned equipment and facilities capable of supporting the manufacturing effort at Lima Army Tank Plant. Funding also covers work at plants in Muskegon, MI and Scranton, PA. Funding for Layaway of Industrial Facilities affords a reduction in costs at various locations by properly preserving equipment for future needs or excessing equipment no longer needed.

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: PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PIF					9369			9742			9902			
LIF					363			370			376			
Total					9732			10112			10278			

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	279.7	8.8	9.4	9.4	9.7	9.9	10.6	10.9	11.2	11.4		371.1
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	279.7	8.8	9.4	9.4	9.7	9.9	10.6	10.9	11.2	11.4		371.1
Initial Spares												
Total Proc Cost	279.7	8.8	9.4	9.4	9.7	9.9	10.6	10.9	11.2	11.4		371.1
Flyaway U/C												
Wpn Sys 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 effort supports the current transition path of the Transformation Campaign Plan.

Justification:

FY05/06 supports Production Support Equipment Replacement to Government Owned Equipment and Government owned real property at Lima Army Tank Plant and Government Owned Equipment at contractor-owned manufacturing facilities at Muskegon MI, Scranton PA, 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 Lima Army Tank Plant, tasks such as rehab of weld machines, 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.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost						0.5	0.5	32.2	42.6	42.7		118.4
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)						0.5	0.5	32.2	42.6	42.7		118.4
Initial Spares												
Total Proc Cost						0.5	0.5	32.2	42.6	42.7		118.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Roll up for the Integrated Air Burst Weapon System Family. The XM8 Assault Weapon is a New Start under G16102 as a spiral development program from the 5.56mm kinetic energy (KE) carbine portion of the XM29, Integrated Air Burst Weapon. This system supports the Current to Future transition path of the Army's Transformation Campaign Plan (TCP).

Justification:

FY05 procures 100 units. The XM8 Assault Weapon is lighter than a comparably equipped M4 Carbine Modular Weapon System (MWS) with improved features and performance unavailable in the current M4. The XM8 will increase reliability and decrease logistic operations.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
XM-8 Carbine (5.56mm) (G16102)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty						100	100	10200	14900	17000		42300
Gross Cost						0.5	0.5	32.2	42.6	42.7		118.4
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)						0.5	0.5	32.2	42.6	42.7		118.4
Initial Spares												
Total Proc Cost						0.5	0.5	32.2	42.6	42.7		118.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The XM8 Assault Weapon is a New Start as a spiral development program from the 5.56mm kinetic energy (KE) carbine portion of the XM29, Integrated Air Burst Weapon. The XM8 represents the state-of-the-art 5.56mm assault weapons having four variants, a baseline assault weapon, sharpshooter variant, automatic rifle variant and a compact variant. To meet changing mission requirements these variants are easily and quickly reconfigured by the individual Soldier with the use of interchangeable assembly groups such as barrel, handguard, low receiver, buttstock modules and sighting system. This system supports the Current to Future transition path of the Army's Transformation Campaign Plan (TCP).

Justification:

FY05 funding supports the tooling of the production line and produces the first 100 weapons for production qualification testing for the Army's ramp-up to full production. The XM8 Assault Weapon is lighter than a comparably equipped M4 Carbine Modular Weapon System (MWS) with improved features and performance unavailable in the current M4. The XM8 will increase reliability and decrease logistic operations.

A report to the congressional defense committees on the XM8 Carbine entitled "Army Assault Rifle Early Transformation" was submitted August 2003.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2004

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

P-1 Item Nomenclature
ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	59224	1306	716	1780	1480	2070	661	640	785			68662
Gross Cost	265.8	12.4	7.9	17.0	16.8	25.2	8.9	11.3	15.5	0.1		380.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	265.8	12.4	7.9	17.0	16.8	25.2	8.9	11.3	15.5	0.1		380.7
Initial Spares												
Total Proc Cost	265.8	12.4	7.9	17.0	16.8	25.2	8.9	11.3	15.5	0.1		380.7
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Description:

The M240B Machine Gun is a ground version of the M240 Machine Gun, 7.62mm Medium Machine Gun class weapon, designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid changing of the barrels. The principle difference between the M240 and the M240B is the addition of 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 flex mount pintle. The M240E5 is a variant of this same family of Machine Guns and will be employed as the self defensive armament subsystem for the UH-60 Black Hawk and CH-47 Chinook Helicopters. The M240E5 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. 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 deployed. These systems both support the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures 2,070 M240 Helicopter Machine guns. The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The U.S. 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. The M240 Helicopter Machine gun is an aviation version of the M240, which replaces the M60 Machine Gun. All Black Hawk and Chinooks (CH-47) equipped with the M60D will be replaced with the aviation variant to include 160th Special Operations Aviation Regiment, 82nd, 101st and 10th Mountain Divisions. All units with Black Hawk and Chinook aircraft will have their M60D Machine Guns replaced with M240 Machine Guns. In FY05 M240 Spare Barrel Bags are being procured under the Rapid Fielding Initiative.

FY 2003 includes supplemental funding of \$.3M for Armor Machine Gun, 7.62MM M240 Series.

FY 2004 includes supplemental funding of \$.3M for Armor Machine Gun, 7.62MM M240 Series.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)			Weapon System Type:			Date: February 2004				
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05			
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	
1. Hardware (Incls Blank Firing Device)		A				14368	1780	8	2885	342	8				
Hardware (Infantry Version)															
Hardware (Aviation Version)										11932	1138	11	23304	2070	11
2. Engineering Support - In House Spt						1606			638				788		
3. Integrated Logistics Support						185			406				400		
4. Engineering Change Proposals						184			200				256		
5. Fielding						330			300				300		
6. Engineering Studies								75				175			
7. RFI - Barrel Bags					321			316				26			
Total					16994			16752				25249			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

Appropriation/Budget Activity/Serial No:

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

Weapon System Type:

P-1 Line Item Nomenclature:

ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)

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

Hardware (Infantry Version)

FY 2002

FN Mfg Inc.,
Columbia, SC

C/FFP IDIQ

TACOM - Rock Island, ILL

Dec 01

Aug 04

716

8

Yes

No

FY 2003

FN Mfg Inc.,
Columbia, SC

C/FFP IDIQ

TACOM - Rock Island, ILL

Aug 03

Nov 04

1780

8

Yes

No

FY 2004

FN Mfg Inc.,
Columbia, SC

IDIQ

TACOM - Rock Island, ILL

Dec 03

Jun 05

342

8

Yes

No

Hardware (Aviation Version)

FY 2004

TBS

TBS

TACOM - Rock Island, ILL

Sept 04

Dec 05

1138

11

No

N/A

FY 2005

TBS

TBS

TACOM - Rock Island, ILL

Dec 04

May 06

2070

11

No

N/A

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
MACHINE GUN, 5.56MM (SAW) (G12900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	75568	4280		750	1200							81798
Gross Cost	198.2	17.2		3.8	5.0	0.1	0.1	0.1	0.1			224.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	198.2	17.2		3.8	5.0	0.1	0.1	0.1	0.1			224.5
Initial Spares												
Total Proc Cost	198.2	17.2		3.8	5.0	0.1	0.1	0.1	0.1			224.5
Flyaway U/C												
Wpn Sys Proc U/C		0.0		0.0	0.0							

Description:

The Squad Automatic Weapon (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 Army configuration was changed Oct 89 to include a spare barrel, additional heat shield and barrel bag. This weapon 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 for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units deployed. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures M249 Spare Barrel Bags for the Rapid Fielding Initiative (RFI).

FY 2003 includes supplemental funding of \$.8M for Machine Gun, 5.56MM (SAW).

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2004

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

P-1 Item Nomenclature
GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	18236	811	1510	626								21183
Gross Cost	291.7	14.9	28.3	16.4								351.3
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	291.7	14.9	28.3	16.4								351.3
Initial Spares												
Total Proc Cost	291.7	14.9	28.3	16.4								351.3
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0								

Description:

The MK19, Mod 3 is a self-powered, air cooled, blowback, 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. Component items for this system include the 40mm assembly group 1 and the MK64 mount. The system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
Mortar Systems (G02200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty				52	59	577						688
Gross Cost	139.4		3.3	4.4	10.0	5.3	0.2		5.9	3.1		171.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	139.4		3.3	4.4	10.0	5.3	0.2		5.9	3.1		171.5
Initial Spares												
Total Proc Cost	139.4		3.3	4.4	10.0	5.3	0.2		5.9	3.1		171.5
Flyaway U/C												
Wpn Sys Proc U/C				0.2	0.2	0.0						

Description:

This program supports the 81mm sub caliber training insert for the 120mm Battalion Mortar System and mortar weapon system modifications. The training insert fits inside the 120mm M120/M121 mortar weapon, currently fielded to all Mechanized Infantry, Armor and Armored Cavalry units in the Army and Army National Guard. This program results in cost avoidance of approximately \$33 million per year by allowing training with lower cost 81mm ammunition in lieu of full size 120mm ammunition. These gun tubes are produced at Watervliet Arsenal as an Arsenal Act order.

Mortar weapon system modifications 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, ignited 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.

This system supports the Current transition path of the Transformation Campaign Plan.

Justification:

FY05 procures 577 redesigned breech caps to resolve a breech cap safety issue and is supported by US Army Safety Center study, case number 20020329001.

81mm Training Insert: TC Date 3Q FY04

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: Mortar Systems (G02200)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE														
81mm Mortar Tube Insert					1716	52	33	2065	59	35				
120mm Breech Cap								4401	577	8	4517	577	8	
Subtotal Hardware					1716			6466			4517			
PRODUCTION SUPPORT														
Production Engineering - Insert					520			877						
ILS, Fielding and NET - Insert								717						
Production Engineering - Breech Cap								400			278			
ILS, Fielding and NET - Breech Cap								249			256			
Lot Acceptance Test (LAT) - Breech Cap								200			207			
Subtotal Production Support					520			2443			741			
NON-RECURRING COSTS														
Value Eng Material Change - Insert					1674			1068						
Production Qualification Test - Insert					446									
First Article Test (FAT) - Breech Cap								50						
Subtotal Non-Recurring Costs					2120			1118						
TOTAL					4356			10027			5258			
Total					4356			10027			5258			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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

81mm Mortar Tube Insert

FY 2003

Watervliet Arsenal
Watervliet NY

WR/FP

N/A

Apr 04

Apr 05

52

33

No

Mar 04

FY 2004

Watervliet Arsenal
Watervliet NY

WR/FP

N/A

Apr 04

Sep 05

59

35

No

Mar 04

120mm Breech Cap

FY 2004

To Be Selected
TBD

C/FP

TACOM ARDEC - Picatinny

Mar 04

Aug 05

577

8

YES

FY 2005

To Be Selected
TBD

WR/FP

TACOM ARDEC - Picatinny

Mar 05

Jul 06

577

8

Yes

REMARKS: Watervliet Arsenal is a Government Owned- Government Operated (GOGO) facility. Work is accomplished through yearly negotiated work orders, not contracts, therefore there is no PCO.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2004

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

P-1 Item Nomenclature
M16 RIFLE (G14900)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	271.2	4.6	2.0	3.1								280.9
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	271.2	4.6	2.0	3.1								280.9
Initial Spares												
Total Proc Cost	271.2	4.6	2.0	3.1								280.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Roll up for the M16 Rifle family of weapons. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	17.1	4.6	2.0	3.1								26.8
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	17.1	4.6	2.0	3.1								26.8
Initial Spares												
Total Proc Cost	17.1	4.6	2.0	3.1								26.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M16A4 Rifle is a 5.56mm gas operated, magazine fed weapon capable of firing either semiautomatic or three-round burst. 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.

The M16A4 Rifle was developed as part of the Modular Weapons System (MWS) Program. The U.S. Army identified a need to improve the versatility of the M4 Carbine and the M16A2 Rifle. This was to be accomplished by providing multiple mounting surfaces on the M4 and M16A2 to allow a combination of various accessories to be simultaneously mounted on the weapons. The M4 Carbine already contained an integral rail on the upper receiver. The M16A4 provides the same capability on the rifle. Production of the M16A4 Rifle commenced in 1998, replacing the M16A2 for all future Army requirements.

This system supports the Current to Future transition path of the Transformation Campaign Plan (TCP).

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
XM107, CAL. 50, SNIPER RIFLE (G01500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty		48	150	600	600	600	600	545				3143
Gross Cost		0.5	2.1	9.0	8.7	8.9	8.9	8.1	0.2			46.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		0.5	2.1	9.0	8.7	8.9	8.9	8.1	0.2			46.3
Initial Spares												
Total Proc Cost		0.5	2.1	9.0	8.7	8.9	8.9	8.1	0.2			46.3
Flyaway U/C												
Wpn Sys 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 and/or supported force and complements the anti-personnel precision fire capability of the M24 Sniper Weapon System (SWS). The M107, with a family of ammunition, enables Sniper teams to employ greater destructive force at greater ranges and at a higher rate of fire that exceed the terminal effect capability of the M24 (7.62mm, bolt action) SWS. Additionally, the M107 will replace existing non-standard, M82A1, caliber .50 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; petroleum, oil and lubricants; 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 when 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. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 05 procures 600 M107 Sniper Weapons, which is a supplement to the current M24 (SWS), 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. It provides greater destructive force at greater ranges and at a higher rate of fire that exceeds the terminal effect capability of the M24 Sniper Weapon System. The M107 augments the existing M24 (SWS) by providing increased ranges of 2000 (anti-materiel) and 1000 (anti-personnel).

The FY03 includes supplemental funding of \$0.2M for M107 Sniper Weapon.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: XM107, CAL. 50, SNIPER RIFLE (G01500)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware		B												
Weapons						6627	600	11.05	6000	600	10.00	6000	600	10.00
Laser Protection Filters & Anti-Reflect						378	600	0.63	298	600	0.50	302	600	0.50
Flash/Sound/Recoil Suppressors									800	640	1.25	1000	800	1.25
GFM						93	600	0.16	94	600	0.16	96	600	0.16
Maintenance Contract						65			35					
Shipping (GBL)						88	600	0.15	90	600	0.15	90	600	0.15
Retrofit/Refurbishment of Urgent Release									225			105		
Rapid Fielding Initiative (Various itms)						179						191		
2. ESIP QA						740			610			620		
3. STRICOM (MILES)					200									
4. DBBL User Experiments														
5. Testing					80									
6. Integrated Logistical Support					125			125			125			
7. New Equipment Training					45			150			242			
8. Fielding					65			85			90			
9. ECPs								10			10			
10. Flash Suppressor Study					270			166						
Total					8955			8688			8871			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

Appropriation/Budget Activity/Serial No:

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

Weapon System Type:

P-1 Line Item Nomenclature:

XM107, CAL. 50, SNIPER RIFLE (G01500)

WBS Cost Elements:

Contractor and Location

Contract Method and Type

Location of PCO

Award Date

Date of First Delivery

QTY Each

Unit Cost \$000

Specs Avail Now?

Date Revsn Avail

RFP Issue Date

Weapons

FY 2003

Barrett Firearms Mfg.
Murfreesboro, TN

Option

TACOM, Picatinny, NJ

DEC 02

DEC 02

258

11.17

FY 2003

Barrett Firearms Mfg.
Murfreesboro, TN

SS/FFP

TACOM, Picatinny, NJ

SEP 03

NOV 03

342

11.17

FY 2004

Barrett Firearms Mfg.
Murfreesboro, TN

Option

TACOM, Picatinny, NJ

DEC 03

JUN 04

600

10.00

YES

FY 2005

Barrett Firearms Mfg.
Murfreesboro, TN

Option

TACOM, Picatinny, NJ

DEC 04

JUN 05

600

10.00

YES

Laser Protection Filters & Anti-Reflect

FY 2003

Litton Systems Inc.,
Dallas, TX

Option

TACOM-ROCK ISLAND

JUL 03

SEP 03

600

0.63

FY 2004

Litton Systems Inc.,
Dallas, TX

Option

TACOM-ROCK ISLAND

DEC 03

JUN 04

600

0.50

YES

FY 2005

Litton Systems Inc.,
Dallas, TX

Option

TACOM-ROCK ISLAND

JAN 05

JUL 05

600

0.50

YES

Flash/Sound/Recoil Suppressors

FY 2004

TBS

C/FFP

TACOM, Picatinny, NJ

DEC 04

MAR 05

640

1.25

NO

OCT 04

FY 2005

TBS

Option

TACOM, Picatinny, NJ

DEC 04

APR 05

800

1.25

NO

OCT 04

REMARKS: Prior to Type Classification permission to procure M107 Sniper Rifle based on Urgent Materiel Release approval for overseas operations.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
5.56 CARBINE M4 (G14904)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	101782	16215	2386	7809	8158	8255	2106					146711
Gross Cost	58.9	11.2	2.4	9.0	8.9	9.4	3.2	0.1				103.0
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Net Proc (P-1)	58.9	11.2	2.4	9.0	8.9	9.4	3.2	0.1				103.0
Initial Spares												
Total Proc Cost	58.9	11.2	2.4	9.0	8.9	9.4	3.2	0.1				103.0
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0	0.0	0.0					

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 will replace all M3A1 WWII era .45 Cal Submachine guns, selective M16 series rifles, and M9 pistols. It provides the individual Soldier operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 Rifle. The system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 05 procures 8,255 M4 Carbines. The M4 Carbine provides soldiers with a compact, lightweight weapon that can provide better self-protection and additional firepower in close quarters. The funded program will allow for the uninterrupted fielding to the National Guard.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: 5.56 CARBINE M4 (G14904)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware		A			7180	7809	0.9	8196	8158	1.0	8708	8255	1.1	
2. Engineering Support (In-House)					498			500			418			
3. Integrated Logistics Support					85			85			90			
4. Fielding/Transportation					145			130			160			
5. Engineering Studies					547									
6. Engineering Services					546									
Total					9001			8911			9376			

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

Appropriation/Budget Activity/Serial No:

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

Weapon System Type:

P-1 Line Item Nomenclature:

5.56 CARBINE M4 (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

1. Hardware

FY 2003

Colt's Mfg Co. Inc
Hartford, CT

SS/FFP

TACOM-Rock Island

Jan 03

Mar 03

7809

1

Yes

No

FY 2004

Colt's Mfg Co. Inc
Hartford, CT

SS/FFP

TACOM-Rock Island

Apr 04

Nov 04

8158

1

Yes

No

FY 2005

Colt's Mfg Co. Inc
Hartford, CT

SS/FFP

TACOM-Rock Island

Jan 05

Oct 05

8255

1

Yes

No

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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)
---	--

Program Elements for Code B Items: 0604854A	Code: B	Other Related Program Elements:
--	------------	---------------------------------

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty						18	18	72	125		40	273
Gross Cost			1.1		7.9	37.2	46.8	128.3	191.5	3.5	65.2	481.6
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)			1.1		7.9	37.2	46.8	128.3	191.5	3.5	65.2	481.6
Initial Spares												
Total Proc Cost			1.1		7.9	37.2	46.8	128.3	191.5	3.5	65.2	481.6
Flyaway U/C												
Wpn Sys Proc U/C						2.1	2.6	1.8	1.5		1.6	

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 includes a digital fire control system but retains conventional fire control as a backup. The digital fire control will enable 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 will increase dispersion and survivability on the battlefield. Modifications to the existing prime mover will 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. LW155 will be the first platform to fire Excalibur, which will provide precision strike capability (10 meter accuracy) out to ranges of 40 kilometers.

This system supports both the Current and Stryker transition paths of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures 18 Lightweight 155mm Towed Howitzers (LW155). This quantity and the Army's overall procurement of LW155s are planned as a joint multi-year procurement with the United States Marine Corps for FY05-FY08. The LW155 replaces the M198 Towed Howitzer for the U.S. Army and USMC. It must be procured in FY05 to begin replacing the aging, heavier M198 howitzer. The LW155 will be the cannon fire support for the Army's Stryker Brigade Combat Teams.

The United Kingdom and Italy are participating in the development of the LW155 under an MOU and the UK has signed a production MOU with the US.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: HOWITZER LT WT 155MM (T) (G01700)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD	FY 03			FY 04			FY 05					
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
1. Titanium/Tooling/Fixtures (BAE)								2839	18	158	1260	18	70	
2. Cannon Assembly (Watervliet Arsenal)								828	18	46	828	18	46	
3. Howitzer (M777E1)											30582	18	1699	
4. ECPs											2409			
5. Engineering Support (OGAs, Spt Kts)											500			
6. Program Management/Admin/Facilities														
7. Software Changes / Updates											1630			
8. Facilitization (Watervliet Arsenal)								4272						
Total								7939			37209			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2004

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
1. Titanium/Tooling/Fixtures (BAE)										
FY 2002	BAE SYSTEMS Barrow-in-Furness, UK	FFP	Picatinny Arsenal, NJ	Feb 02	N/A					
FY 2004	BAE SYSTEMS Barrow-in-Furness, UK	FFP	Picatinny Arsenal, NJ	Dec 03	Feb 05	18	158			
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 05	Jan 06	18	70			
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 06	Jan 07	72	70			
2. Cannon Assembly (Watervliet Arsenal)										
FY 2004	Watervliet Arsenal Watervliet, NY 12189	N/A		Dec 03	Feb 05	18	46			
FY 2005	Watervliet Arsenal Watervliet, NY 12189	N/A		Nov 04	Jan 06	18	46			
FY 2006	Watervliet Arsenal Watervliet, NY 12189	N/A		Nov 06	Jan 07	72	46			
3. Howitzer (M777E1)										
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 05	Jan 06	18	1699			
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Jan 06	Jan 07	18	1736			

REMARKS: A joint service multi-year contract is anticipated with the USMC commencing in FY05.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
MARK- 19 MODIFICATIONS (GB3000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	2.5	2.8	1.0	2.8	3.8	4.2	4.8	3.3	6.4	8.7		40.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.5	2.8	1.0	2.8	3.8	4.2	4.8	3.3	6.4	8.7		40.5
Initial Spares												
Total Proc Cost	2.5	2.8	1.0	2.8	3.8	4.2	4.8	3.3	6.4	8.7		40.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The MK19 Mod 3 is a self powered, air cooled, blowback operated, 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 MK19, 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. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures the Lightweight Adjustable Sight Bracket, continues fielding and installation of the MK-19 Modification Kit and initiates activities for 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 Cal 50 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 MK19. The sight base when attached to the MK19 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 MK19 by lowering the level of maintenance and ease of feed slide adjustment.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
MARK-19 MODIFICATIONS (GB3000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Modification Kit											
TBD1		5.7	1.6	1.5	1.8	0.6	0.0	0.0	0.0	0.0	11.2
Tactical Engagement Simulator (TES)											
TBD2		0.0	0.0	0.0	0.6	3.6	3.0	6.1	8.7	0.0	22.0
Lightweight Adjustable Sight Bracket											
TBD3		0.6	1.2	2.3	1.8	0.6	0.3	0.3	0.0	0.0	7.1
Totals		6.3	2.8	3.8	4.2	4.8	3.3	6.4	8.7	0.0	40.3

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Modification Kit [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: MK19 Grenade Machine Gun

DESCRIPTION/JUSTIFICATION:

The sight base when attached to the MK19 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 MK19 by lowering the level of maintenance and ease of feed slide adjustment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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 2004 FY 2005 FY 2006
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	17939		718																18657	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Hardware	0	4.4		0.1																4.5
--	0																			
Engineering Support	0	0.4		0.6		0.7		0.7		0.2										2.6
Testing	0	0.0																		
Integrated Logistics Supprt	0	0.3		0.4		0.1		0.3		0.1										1.2
Fielding	0	0.6		0.5		0.7		0.8		0.3										2.9
--	0																			
--	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	3482		3860		5351		5246												17939	
FY2003 Equip -- Kits	0								718										718	
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																			
Total Installment	3482	0.0	3860	0.0	5351	0.0	5246	0.0	718	0.0		0.0		0.0		0.0		0.0	18657	0.0
Total Procurement Cost		5.7		1.6		1.5		1.8		0.6		0.0		0.0		0.0		0.0		11.2

INDIVIDUAL MODIFICATION

Date: February 2004

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

MODELS OF SYSTEM AFFECTED:

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. Currently this capability does not exist.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Production Contract Award 2Q06 (Planned)
 First Production Delivered 4Q06 (Planned)
 First Unit Equipped 1Q07 (Planned)

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	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 2008				FY 2009				FY 2010				FY 2011				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 2004 FY 2005 FY 2006
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity									312		248		567		746				1873	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware									3.0		2.5		5.7		7.9					19.1
--																				
Engineering Support							0.5		0.4		0.3		0.2		0.4					1.8
Testing																				
Integrated Logistical Support	0						0.1		0.1		0.1		0.1		0.2					0.6
Fielding	0								0.1		0.1		0.1		0.2					0.5
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0									312										312
FY2007 Equip -- Kits	0											248								248
FY2008 Equip -- Kits	0												567							567
FY2009 Equip -- Kits	0														746					746
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0	312	0.0	248	0.0	567	0.0	746	0.0	1873	0.0
Total Procurement Cost		0.0		0.0		0.0		0.6		3.6		3.0		6.1		8.7		0.0		22.0

INDIVIDUAL MODIFICATION

Date: February 2004

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

MODELS OF SYSTEM AFFECTED: MK19 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 MK19. 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 MILESTONES:

Production Contract Award 4Q01 (Actual)
 First Production Delivered 3Q03 (Actual)
 First Unit Equipped 2Q04 (Planned)

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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 2004 FY 2005 FY 2006
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	752		2086		5061		2558		679		298								11434	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Hardware	0	0.4		0.8		1.8		1.2		0.3		0.2								4.7
--	0																			
Engineering Support	0	0.1		0.3		0.3		0.3		0.2		0.1		0.2						1.5
Testing	0																			
Integrated logistical Support	0	0.1		0.1		0.1		0.1		0.1		0.0		0.1						0.6
Fielding	0			0.0		0.1		0.2		0.0		0.0								0.3
--	0																			
--	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0				752															752
FY2003 Equip -- Kits	0			2086																2086
FY2004 Equip -- Kits	0					4000		1061												5061
FY2005 Equip -- Kits	0						2558													2558
FY2006 Equip -- Kits	0								679											679
FY2007 Equip -- Kits	0										298									298
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0	2838	0.0	4000	0.0	3619	0.0	679	0.0	298	0.0		0.0		0.0	11434	0.0
Total Procurement Cost		0.6		1.2		2.3		1.8		0.6		0.3		0.3		0.0		0.0		7.1

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	29.2	10.8		33.3	22.9	13.8	10.3	10.6	10.1	2.8		143.8
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	29.2	10.8		33.3	22.9	13.8	10.3	10.6	10.1	2.8		143.8
Initial Spares												
Total Proc Cost	29.2	10.8		33.3	22.9	13.8	10.3	10.6	10.1	2.8		143.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M4 Carbine Modification Program provides a close combat optic, an improved buttstock, and a modular weapon suite (which includes a rail system, a top carry sling, a flashlight mount, a quick attach bracket kit for the M203 Grenade Launcher and a permanently affixed back-up iron sight). It also provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures M4 Modular Weapon Systems and Close Combat Optics (CCO). The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Soldier Lethality and allows the combat commander to custom configure weapons based upon the mission. The permanent back-up rear operative, iron sight provides that capability in the event it becomes immediately necessary.

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 CCO, Powered Optics, Tactical Weapon Lights, Magazines and Slings.

FY 2003 includes supplemental funding of \$19.8M for M4 Carbine Mods.

FY 2004 includes supplemental funding of \$16.3M for M4 Carbine Mods.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Modular Weapon System											
TBD1	Operational	23.6	8.4	5.7	5.5	3.6	4.0	3.4	2.8	0.0	57.0
Close Combat Optic											
TBD2	Operational	14.1	0.7	1.0	2.0	0.2	0.0	0.0	0.0	0.0	18.0
Closed Mods											
TBD4		2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Rapid Fielding Initiative											
TBD5	Operational	0.0	24.2	16.2	6.2	6.3	6.7	6.8	0.0	0.0	66.4
Totals		40.1	33.3	22.9	13.7	10.1	10.7	10.2	2.8	0.0	143.8

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Modular Weapon System [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: 5.56 Carbine M4

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, Close Quarters Battle (CQB) sling, back-up iron sight and weapon flashlight mount.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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:

Contract Dates:	FY 2004	ADMINISTRATIVE LEADTIME:	FY 2005	0 Months	PRODUCTION LEADTIME:	FY 2006	0 Months
Delivery Date:	FY 2004		FY 2005			FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Rail Systems Only)	67210		15000		2030														84240	
Quantity (Other Components)					41235		33000		20000		13000		13000		13000				133235	
Installation Kits, Nonrecurring																				
Hardware		20.8		7.3		5.2		4.6		2.6		2.1		2.2		2.0				46.8
Equipment, Nonrecurring																				
Engineering Support		1.4		0.6		0.3		0.5		0.6		0.7		0.7		0.5				5.3
Testing		0.0																		
Integrated Logistical Support		0.4		0.2		0.1		0.2		0.2		0.3		0.3		0.2				1.9
Fielding		0.8		0.1		0.1		0.2		0.2		0.2		0.2		0.1				1.9
Engineering Study		0.2		0.2								0.7								1.1
Interim Contractor Support																				
Installation of Hardware		0																		
FY2002 & Prior Equip -- Kits	67210																			67210
FY2003 Equip -- Kits					15000															15000
FY2004 Equip -- Kits								2030												2030
FY2004 Other Equip -- Kits							41235													41235
FY2005 Other Equip -- Kits									33000											33000
FY2006 Other Equip -- Kits										20000										20000
FY2007 Other Equip -- Kits												13000								13000
FY2008 Other Equip -- Kits														13000						13000
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	67210	0.0		0.0	15000	0.0	43265	0.0	33000	0.0	20000	0.0	13000	0.0	13000	0.0		0.0	204475	0.0
Total Procurement Cost		23.6		8.4		5.7		5.5		3.6		4.0		3.4		2.8		0.0		57.0

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Close Combat Optic [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: 5.56 Carbine M4

DESCRIPTION/JUSTIFICATION:

The M68 Sight, Reflex (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 MILESTONES:

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 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	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 2008				FY 2009				FY 2010				FY 2011				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 2004	FY 2005	FY 2006	
Delivery Date:	FY 2004	FY 2005	FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Quantity	58355		2174		2400		5970													68899	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		13.0		0.6		0.7		1.7													16.0
Equipment, Nonrecurring																					
Engineering Support		0.7		0.0		0.1		0.1		0.1											1.0
Testing		0.2																			0.2
Integrated Logistical Support		0.1		0.0		0.1		0.1													0.3
Fielding		0.1		0.1		0.1		0.1		0.1											0.5
Other																					
Interim Contractor Support																					
Installation of Hardware		0																			
FY2002 & Prior Equip -- Kits	58355																				58355
FY2003 Equip -- Kits					2174																2174
FY2004 Equip -- Kits							2400														2400
FY2005 Equip -- Kits								5970													5970
FY2006 Equip -- Kits																					
FY2007 Equip -- Kits																					
FY2008 Equip -- Kits																					
FY2009 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	58355	0.0		0.0	2174	0.0	2400	0.0	5970	0.0		0.0		0.0		0.0		0.0	68899	0.0	
Total Procurement Cost		14.1		0.7		1.0		2.0		0.2		0.0		0.0		0.0		0.0		18.0	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 4] TBD5

MODELS OF SYSTEM AFFECTED: 5.56 Carbine M4

DESCRIPTION/JUSTIFICATION:

In support of the war the Rapid Fielding Initiative provides deploying soldiers with new equipment to upgrade existing equipment or replace worn-out equipment. This includes close combat optics, powered optics, tactical weapon lights, magazines and slings.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2008				FY 2009				FY 2010				FY 2011				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 2004 FY 2005 FY 2006
 Delivery Date: FY 2004 FY 2005 FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Rapid Fielding Initiative [MOD 4] TBD5

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Multiple Items				22.8		14.6		4.8		4.9		5.0		5.1						57.2
Engineering Support				1.4		1.2		0.7		0.7		0.8		0.8						5.6
Testing																				
Integrated Logistic Support								0.1		0.1		0.2		0.2						0.6
Fielding								0.1		0.1		0.2		0.2						0.6
Engineering Study																				
Interim Contractor Support						0.4		0.5		0.5		0.5		0.5						2.4
Installation of Hardware																				
FY 2002 & Prior Equip -- Kits																				
FY 2003 -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
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
Total Procurement Cost		0.0		24.2		16.2		6.2		6.3		6.7		6.8		0.0		0.0		66.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /2/Weapons and other combat vehicles	P-1 Item Nomenclature SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	10.2	2.4	4.4	11.7	5.5	3.4	1.3	5.0	11.2	4.1		59.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.2	2.4	4.4	11.7	5.5	3.4	1.3	5.0	11.2	4.1		59.1
Initial Spares												
Total Proc Cost	10.2	2.4	4.4	11.7	5.5	3.4	1.3	5.0	11.2	4.1		59.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that can be utilized in the automatic rifle role and the machine gun role. The M249 Feedtray Cover will provide a Military Standard 1913 rail interface allowing the mounting of standard military optics (M145 Machine Gun Optics, TWS, PVS-4, etc.) directly to the machine gun. The front rails will be fastened to the sides and bottom of the M249 SAW receiver. The side rails accommodate the devices when the weapon is used in either role, while the bottom rail provides an attachment for the vertical handgrip when the SAW is used in the automatic rifle role. The M249 Machine Gun Short Barrel will provide a short version of the 5.56mm automatic weapon. The Light Weight Ground Mount will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as have a series of index marks that enable gunners to construct a range data card. 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 deployed. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures M249 Rails/Bipods/Handguards and Light Weight Ground Mounts. The M249 Rails/Bipods/Handguards will allow for the attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip and horizontal handgrip, which will provide the soldier additional capabilities to engage targets at extended ranges and during periods of limited visibility. The Light Weight Ground Mount will reduce the weight of the current tripod by approximately 7 lbs. In FY05, Collapsible Buttstocks are being procured under the Rapid Fielding Initiative.

FY 2003 includes supplemental funding of \$7.2M for Squad Automatic Weapons Mods.

FY 2004 includes supplemental funding of \$.4M for Squad Automatic Weapons Mods.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
M249 Feedtray Covers											
TBD1	Operational	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
M249 Rails/Bipod/Handguard											
TBD2	Operational	4.0	0.1	2.3	0.9	0.0	1.0	2.4	2.0	0.0	12.7
M249 Short Barrel/Coll Buttstock/Heatshield											
TBD3	Operational	4.4	4.0	1.0	0.0	0.8	1.1	1.0	0.0	0.0	12.3
Light Weight Ground Mount											
TBD4	Operational	0.0	0.0	1.8	2.0	0.0	2.4	7.3	1.6	0.0	15.1
Rapid Fielding Initiative											
TBD5	Operational	0.0	7.6	0.4	0.5	0.5	0.5	0.5	0.5	0.0	10.5
Closed Mods											
TBD6		6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Totals		17.0	11.7	5.5	3.4	1.3	5.0	11.2	4.1	0.0	59.2

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: M249 Feedtray Covers [MOD 1] TBD1

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

DESCRIPTION/JUSTIFICATION:

The M249 Feedtray Cover will provide a Military Standard 1913 rail interface. The rail will allow mounting standard military optics (M145 Machine Gun Optics, TWS, PVS-4, etc.), directly to the machine gun. The rail is required to ensure that advanced optical sights can be mounted on the M249 providing the soldier additional capabilities to engage targets at extended ranges and during periods of limited visibility.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Developmental/User Test	3Q98 (Actual)
Production Decision	4Q98 (Actual)
Production Contract Award	3Q99 (Actual)
First Production Hardware Delivered	1Q00 (Actual)
First Unit Equipped	2Q00 (Actual)

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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:

Contract Dates:	FY 2004	ADMINISTRATIVE LEADTIME:	FY 2005	0 Months	PRODUCTION LEADTIME:	FY 2006	0 Months
Delivery Date:	FY 2004		FY 2005			FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): M249 Feedtray Covers [MOD 1] TBD1

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Quantity	35500																			35500	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		2.0																			2.0
Equipment, Nonrecurring																					
Engineering Support		0.5																			0.5
Testing		0.1																			0.1
Integrated Logistical Support																					
Fielding																					
Other																					
Interim Contractor Support																					
Installation of Hardware		0																			
FY2002 & Prior Equip -- Kits	24967		10533																		35500
FY2003 Equip -- Kits																					
FY2004 Equip -- Kits																					
FY2005 Equip -- Kits																					
FY2006 Equip -- Kits																					
FY2007 Equip -- Kits																					
FY2008 Equip -- Kits																					
FY2009 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	24967	0.0	10533	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		35500	0.0
Total Procurement Cost		2.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0			2.6

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): M249 Rails/Bipod/Handguard [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Various Components)	127698		5844		37373		1562				1765		5588		3889				183719	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		3.2		0.1		1.7		0.5				0.6		1.9		1.4				9.4
Equipment, Nonrecurring																				
Engineering Support		0.6		0.0		0.4		0.2				0.2		0.4		0.4				2.2
Testing																				
Integrated Logistical Support		0.1				0.1		0.1				0.1		0.1		0.1				0.6
Fielding		0.1				0.1		0.1				0.1		0.0		0.1				0.5
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	12824		4520		35740		43779		12000		7500		6000		5335				127698	
FY2003 Equip -- Kits							4221		1623										5844	
FY2004 Equip -- Kits							7000		14000		12000		4373						37373	
FY2005 Equip -- Kits									1562										1562	
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits											400		1365						1765	
FY2008 Equip -- Kits													1035		4553				5588	
FY2009 Equip -- Kits															247		3642		3889	
TC Equip- Kits																				
Total Installment	12824	0.0	4520	0.0	35740	0.0	55000	0.0	29185	0.0	19900	0.0	12773	0.0	10135	0.0	3642	0.0	183719	0.0
Total Procurement Cost		4.0		0.1		2.3		0.9		0.0		1.0		2.4		2.0		0.0		12.7

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: M249 Short Barrel/Coll Buttstock/Heatshield [MOD 3] TBD3

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. The resultant short weapon enhances operational capability by improving MOUT maneuverability and Airborne/Air Assault jump capabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	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 2008				FY 2009				FY 2010				FY 2011				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 2004	FY 2005	FY 2006	
Delivery Date:	FY 2004	FY 2005	FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): M249 Short Barrel/Coll Buttstock/Heatshield [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Quantity (Various Components)	5594		7602		900				909		1250		893							17148	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		3.7		3.5		0.5				0.5		0.7		0.5							9.4
Equipment, Nonrecurring																					
Engineering Support		0.4		0.3		0.3				0.1		0.2		0.3							1.6
Testing																					
Integrated Logistical Support				0.1		0.1				0.1		0.1		0.1							0.5
Fielding				0.1		0.1				0.1		0.1		0.1							0.5
Other		0.3																			0.3
Interim Contractor Support																					
Installation of Hardware																					
FY2002 & Prior Equip -- Kits	500		4000		1094																5594
FY2003 Equip -- Kits			300		3820		3482														7602
FY2004 Equip -- Kits							900														900
FY2005 Equip -- Kits																					
FY2006 Equip -- Kits									300		609										909
FY2007 Equip -- Kits										400		850									1250
FY2008 Equip -- Kits														893							893
FY2009 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	500	0.0	4300	0.0	4914	0.0	4382	0.0	300	0.0	1009	0.0	850	0.0	893	0.0		0.0	17148	0.0	
Total Procurement Cost		4.4		4.0		1.0		0.0		0.8		1.1		1.0		0.0		0.0			12.3

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Light Weight Ground Mount [MOD 4] TBD4

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 have a series of index marks that enable gunners to construct a range data card.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Developmental/Operational Test	3Q03 (Actual)
Type Classification (LRP)	2Q04 (Planned)
Production Contract Award	2Q04 (Planned)
First Production Hardware Delivered	4Q04 (Planned)
First Unit Equipped	4Q04 (Planned)

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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 2004	FY 2005	FY 2006	
Delivery Date:	FY 2004	FY 2005	FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Light Weight Ground Mount [MOD 4] TBD4

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity					744		903				994		3789		683				7113	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware						1.1	1.4				1.6	6.1		1.1						11.3
Equipment, Nonrecurring																				
Engineering Support						0.4	0.3				0.4	0.8		0.3						2.2
Testing						0.1														0.1
Integrated Logistical Support						0.1	0.1				0.2	0.2		0.1						0.7
Fielding						0.1	0.2				0.2	0.2		0.1						0.8
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits					144		600												744	
FY2005 Equip -- Kits									903										903	
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits										994									994	
FY2008 Equip -- Kits												2072		1717					3789	
FY2009 Equip -- Kits														683					683	
TC Equip- Kits																				
Total Installment	0	0.0		0.0	144	0.0	600	0.0	903	0.0	994	0.0	2072	0.0	2400	0.0		0.0	7113	0.0
Total Procurement Cost		0.0		0.0		1.8		2.0		0.0		2.4		7.3		1.6		0.0		15.1

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 5] TBD5

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

This funds items (Pistol Grips, Rail Covers, Accessory Rail Kits, Ammo Packs, Short Barrels, Collapsible Buttstocks, XM192 Tripods) under the Rapid Fielding Initiative.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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 2004

FY 2005

FY 2006

Delivery Date: FY 2004

FY 2005

FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Various Components)																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware				6.6		0.2		0.3		0.2		0.2		0.2		0.2				7.9
Equipment, Nonrecurring																				
Engineering Support				0.4		0.2		0.2		0.2		0.2		0.2		0.2				1.6
Testing																				
Integrated Logistical Support				0.2					0.1		0.1		0.1		0.1					0.6
Fielding				0.1																0.1
Other - Engineering Study				0.3																0.3
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0		0.0		0.0		0.0												
Total Procurement Cost		0.0		7.6		0.4		0.5		0.0		10.5								

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
Medium Machine Guns (MODS) (GZ1300)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	8.2	0.5	0.7	1.3	3.9	3.4	3.3	4.9	13.8			40.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	8.2	0.5	0.7	1.3	3.9	3.4	3.3	4.9	13.8			40.1
Initial Spares												
Total Proc Cost	8.2	0.5	0.7	1.3	3.9	3.4	3.3	4.9	13.8			40.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid change of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heatshield, rear sight assembly and hydraulic buffer assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing and elevating mechanism and a pintle. 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 and an improved, Light Weight Ground Mount. 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 deployed. This system and the planned improvements support the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures XM192 Light Weight Ground Mounts. 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 U.S. 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. In FY05, Light Weight Tripods are being procured under the Rapid Fielding Initiative.

FY 2003 includes supplemental funding of \$0.8M for M240 Medium Machine Gun Mods.

FY 2004 includes supplemental funding of \$1.0M for M240 Medium Machine Gun Mods.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty					13	13						26
Gross Cost	3.3	3.5	2.8		0.9	0.8						11.3
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	3.3	3.5	2.8		0.9	0.8						11.3
Initial Spares												
Total Proc Cost	3.3	3.5	2.8		0.9	0.8						11.3
Flyaway U/C												
Wpn Sys Proc U/C					0.1	0.1						

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 it's 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.

This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures hardware for M198 SBCT #4 fielding.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
M119 MODIFICATIONS (GC0401)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	14.3	4.7	4.9	4.8								28.6
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	14.3	4.7	4.9	4.8								28.6
Initial Spares												
Total Proc Cost	14.3	4.7	4.9	4.8								28.6
Flyaway U/C												
Wpn Sys 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. 425 M119A1 howitzers have been fielded beginning in FY 91. To date, 10 howitzers have been washed out and 10 have been disassembled to support the field, leaving 394 howitzers. 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.

This system supports the Current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 05 program not funded.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	52.6	3.9	2.1		2.4	2.3	2.0		3.9			69.2
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	52.6	3.9	2.1		2.4	2.3	2.0		3.9			69.2
Initial Spares												
Total Proc Cost	52.6	3.9	2.1		2.4	2.3	2.0		3.9			69.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M16 family of rifles is comprised of gas operated, magazine fed and shoulder fired weapon. They are fed 30 round magazines. The M16 Rifle Modifications Program provides a close combat optic and a modular weapon system suite (which includes a rail system, a top carry sling, a flashlight mount, a quick attach bracket kit for the M203 Grenade Launcher and a permanently affixed, rear aperture, back-up iron sight for the M16A4 Rifle). The modular weapon allows the custom configuration of the M16 Rifles with accessories and smaller items, i.e., optics, night sights, laser pointers, based on mission requirements. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

The FY05 procures M16 Modular Weapon Systems. The modular weapon system is a key component of Land Warrior Lethality and allows the combat commander to custom configure weapons with accessories (i.e., day sights, laser pointers, ancillary weapons, etc.) based upon the mission. The permanent back-up, rear aperture, iron sight provides that capability in the event it becomes immediately necessary.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Modular Weapon System M16/M203											
TBD1	Operational	16.8	0.0	2.5	2.3	2.0	0.0	3.9	0.0	0.0	27.5
Close Combat Optic M16											
TBD2	Operational	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9
Closed Mods											
TBD3		30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9
Totals		58.6	0.0	2.5	2.3	2.0	0.0	3.9	0.0	0.0	69.3

INDIVIDUAL MODIFICATION

Date: February 2004

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

MODELS OF SYSTEM AFFECTED: Rifle, 5.56mm M16A2

DESCRIPTION/JUSTIFICATION:

The modular weapon 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, IR aiming light, the grenade launcher, etc. based upon mission requirements in the field, without tools. The Modular Weapon System includes the adapter rail system, CQB sling and back-up iron sight. Outyear funding (FY04 thru FY06) will cover planned Modular Weapon System upgrades.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Developmental/Operational Tests	3Q95/2Q96 (Actual)
Milestone III Production Decision	3Q97 (Actual)
Production Contract Award	4Q97 (Actual)
First Production Hardware Delivered	4Q98 (Actual)
First Unit Equipped	2Q99 (Actual)

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	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 2008				FY 2009				FY 2010				FY 2011				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:

Contract Dates:	FY 2004	ADMINISTRATIVE LEADTIME:	FY 2005	0 Months	PRODUCTION LEADTIME:	FY 2006	0 Months
Delivery Date:	FY 2004		FY 2005			FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Rail Systems Only)	22138				7195		6753		5707										41793	
Quantity (Other Components)													3500						3500	
Installation Kits, Nonrecurring																				
Hardware		14.6			2.2		2.1		1.9				3.4							24.2
Equipment, Nonrecurring																				
Engineering Support		1.2			0.1		0.1		0.1				0.3							1.8
Testing		0.1																		0.1
Integrated Logistical Support		0.3			0.1		0.0		0.0				0.1							0.5
Fielding		0.5			0.1		0.1		0.0				0.1							0.8
Engineering Study		0.1																		0.1
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	22138																			22138
FY2003 Equip -- Kits							7195													7195
FY2004 Equip -- Kits									6753											6753
FY2005 Equip -- Kits										5707										5707
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits														3500						3500
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	22138	0.0		0.0		0.0	7195	0.0	6753	0.0	5707	0.0	0.0	3500	0.0		0.0	0.0	45293	0.0
Total Procurement Cost		16.8		0.0		2.5		2.3		2.0		0.0		3.9		0.0		0.0		27.5

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Close Combat Optic M16 [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M16A2/A4 Rifle, M68 Sight Reflex

DESCRIPTION/JUSTIFICATION:

The Close Combat Optic allows the soldier to fire his weapon with both eyes open allowing greater awareness of events happening in close proximity to the soldier and improves hit probability in daylight, low light level, wet weather and other adverse conditions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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 2004	FY 2005	FY 2006	
Delivery Date:	FY 2004	FY 2005	FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE (Cont): Close Combat Optic M16 [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Quantity	50086																			50086	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		9.7																			9.7
Engineering Change Proposal		0.0																			0.0
Engineering Support		0.9																			0.9
Testing		0.1																			0.1
Integrated Logistical Support		0.1																			0.1
Fielding		0.1																			0.1
Other																					
Interim Contractor Support																					
Installation of Hardware		0																			
FY2002 & Prior Equip -- Kits	50086																			50086	
FY2003 Equip -- Kits																					
FY2004 Equip -- Kits																					
FY2005 Equip -- Kits																					
FY2006 Equip -- Kits																					
FY2007 Equip -- Kits																					
FY2008 Equip -- Kits																					
FY2009 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	50086	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	50086	0.0	
Total Procurement Cost		10.9		0.0		0.0		10.9													

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	78.1	2.3	1.2	7.9	3.3	3.2	0.7	1.3	0.7	0.5		99.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	78.1	2.3	1.2	7.9	3.3	3.2	0.7	1.3	0.7	0.5		99.3
Initial Spares												
Total Proc Cost	78.1	2.3	1.2	7.9	3.3	3.2	0.7	1.3	0.7	0.5		99.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Provides for modification of Weapons and Other Combat Vehicles with a cost less than \$5.0 Million. 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 deployed. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 procures M145 Machine Gun Optic Sights 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. The optic sight also provides the soldier with a greater hit probability. In FY05, M145 Machine Gun Optic Sights are being procured under the Rapid Fielding Initiative.

FY 2003 includes supplemental funding of \$5.5M for Modifications Less Than \$5M.

FY 2004 includes supplemental funding of \$1.1M for Modifications Less Than \$5M.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2004

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:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
M145 Machine Gun Optic											
TBD1	Operational	8.1	0.8	2.2	2.9	0.4	1.0	0.4	0.2	0.0	16.0
Rapid Fielding Initiative											
TBD2	Operational	0.0	7.1	1.1	0.3	0.3	0.3	0.3	0.3	0.0	9.7
Closed Mods											
TBD3		73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5
Totals		81.6	7.9	3.3	3.2	0.7	1.3	0.7	0.5	0.0	99.2

INDIVIDUAL MODIFICATION

Date: February 2004

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

MODELS OF SYSTEM AFFECTED: M240B Machine Gun, M249 Squad Automatic Weapon

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 MILESTONES:

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	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007			
	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 2008				FY 2009				FY 2010				FY 2011				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:

Contract Dates:	FY 2004	ADMINISTRATIVE LEADTIME:	FY 2005	0 Months	PRODUCTION LEADTIME:	FY 2006	0 Months
Delivery Date:	FY 2004		FY 2005			FY 2006	

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	11846		1381		3885		5080		648		1535		648		307				25330	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		6.6		0.7		2.0		2.7		0.3		0.8		0.3		0.2				13.6
Equipment, Nonrecurring																				
Engineering Support		1.0		0.1		0.2		0.2		0.1		0.2		0.1		0.0				1.9
Testing		0.3																		0.3
Integrated Logistical Support		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.1
Fielding		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.1
Other																				
Interim Contractor Support																				
Installation of Hardware		0																		
FY2002 & Prior Equip -- Kits	11846																			11846
FY2003 Equip -- Kits			1381																	1381
FY2004 Equip -- Kits					3885															3885
FY2005 Equip -- Kits							5080													5080
FY2006 Equip -- Kits									648											648
FY2007 Equip -- Kits											1535									1535
FY2008 Equip -- Kits													646							646
FY2009 Equip -- Kits															307					307
TC Equip- Kits																				
Total Installment	11846	0.0	1381	0.0	3885	0.0	5080	0.0	648	0.0	1535	0.0	646	0.0	307	0.0		0.0	25328	0.0
Total Procurement Cost		8.1		0.8		2.2		2.9		0.4		1.0		0.4		0.2		0.0		16.0

INDIVIDUAL MODIFICATION

Date: February 2004

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

This funds the M145 Machine Gun Optic under the Rapid Fielding Initiative.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007					
	Totals	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 2008				FY 2009				FY 2010				FY 2011				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 2004

FY 2005

FY 2006

Delivery Date: FY 2004

FY 2005

FY 2006

INDIVIDUAL MODIFICATION

Date: February 2004

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware				5.7		0.9		0.2		0.2		0.2		0.2		0.2				7.6
Equipment, Nonrecurring																				
Engineering Support				1.2		0.2		0.1		0.1		0.1		0.1		0.1				1.9
Testing																				
Integrated Logistical Support				0.1																0.1
Fielding				0.1																0.1
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0		0.0		0.0		0.0												
Total Procurement Cost		0.0		7.1		1.1		0.3		0.0		9.7								

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:	Other Related Program Elements:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	69.1	1.3	1.6	4.3	2.0	0.5	0.5	0.5	0.5	0.5		80.7
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	69.1	1.3	1.6	4.3	2.0	0.5	0.5	0.5	0.5	0.5		80.7
Initial Spares												
Total Proc Cost	69.1	1.3	1.6	4.3	2.0	0.5	0.5	0.5	0.5	0.5		80.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Provides for procurement and assembly of tool/shop sets, small arms, and gun mounts. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and ROTC unit to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

Items less than \$5.0 million are required to achieve and sustain required levels of readiness to units providing maintenance support to all small arms (M16, 9mm Pistol, 7.62 Machine Gun, etc.), artillery (M102, M119, M198 Howitzers, etc.), air defense (Vulcan, PIVAD, etc.) special weapons, fire control (Tanks, etc.) and Striker organizations. Small Arms weapons are required to support AAO shortages, field replacements and training requirements.

FY 2003 includes supplemental funding of \$2.9M for Items Less Than \$5M.

FY 2004 includes supplemental funding of \$1.5M for Items Less Than \$5M.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	295.4	5.7	7.1	5.7	7.0	6.6	6.9	6.1	6.2	6.3		353.2
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	295.4	5.7	7.1	5.7	7.0	6.6	6.9	6.1	6.2	6.3		353.2
Initial Spares												
Total Proc Cost	295.4	5.7	7.1	5.7	7.0	6.6	6.9	6.1	6.2	6.3		353.2
Flyaway U/C												
Wpn Sys 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 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:

FY05 provides 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.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PIF					3097			4464			4621			
LIF					2637			2572			1999			
Total					5734			7036			6620			

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	242.6	3.5	3.7	3.1	4.5	4.6	5.0	4.1	4.2	4.3		279.4
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	242.6	3.5	3.7	3.1	4.5	4.6	5.0	4.1	4.2	4.3		279.4
Initial Spares												
Total Proc Cost	242.6	3.5	3.7	3.1	4.5	4.6	5.0	4.1	4.2	4.3		279.4
Flyaway U/C												
Wpn Sys 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 Army-owned industrial 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 including lifting and tie down, automotive winch performance and endurance, center of gravity, vertical drop, suspension spring rate and rail impact. This project supports all transition paths of the Army Transformation from the Current to the Future Force.

Justification:

FY05 procures: At ATC, toxic fumes and particulate analysis instrumentation for the Fire Safety Test Enclosure, used in fire suppression and flamability 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 vehicle data acquisition equipment for measuring shock and vibration in vehicles traversing harsh terrain; 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; non-destructive laboratory instrumentation and equipment used to test exotic materials being used in the design and fabrication of military systems such as ceramics, composites, and polymers; upgrades to the Corrosion Test Facility used for accelerated corrosion testing and corrosion protection evaluation on combat and support vehicles; and modernization of the transportability and winch test capabilities used to assess the mobility and deployability of combat vehicles.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

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:

At WSMR, amplifiers, antennas and signal generators used 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, "standardized" common range instrumentation data acquisition systems (currently used on Abrams and Bradley vehicles) to access test data via the combat vehicles 1553 bus; replacement on-board sensors to monitor automotive performance parameters; 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; and upgrades to the combat systems firing range that provides various radio controlled targets to test vehicle fire control systems. 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 2004

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)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	52.9	2.3	3.4	2.7	2.6	2.0	1.9	2.0	2.0	2.1		73.8
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	52.9	2.3	3.4	2.7	2.6	2.0	1.9	2.0	2.0	2.1		73.8
Initial Spares												
Total Proc Cost	52.9	2.3	3.4	2.7	2.6	2.0	1.9	2.0	2.0	2.1		73.8
Flyaway U/C												
Wpn Sys 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.

FY05 major project efforts support footprint reduction by providing for the layaway of 333 machines and excess of 288 pieces of equipment in the Army Reserve Plant (ARP) 0727 at Rock Island Arsenal. Work also includes layaway of manufacturing floor space in Building 220. Efforts at Watervliet will consist of excessing 17 machines and excess and/or layaway of approximately 155 pieces of measuring equipment.

FY 2005 resources also support environmental cleanup by providing for complete subsurface investigations on the interior and exterior of Building 64 (Old Plating Shop). Scope of project includes subsurface remedial designs and completion of the actual remediation as mandated by an Illinois Environmental Protection Agency (IEPA) Notice of Violation (NOV). The project covers hydraulic conductivity test of Deep Well 51 to determine if contamination from Building 64 is entering the drinking water aquifer, sampling interiors and subsurfaces of 3 steam tunnels to determine whether hazardous levels of contamination exist, and installing additional groundwater monitoring wells to determine whether contamination is in the deeper Silurian formation.

Justification:

FY05 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, XM777 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.

FY05 funds will also support environmental clean-up of Building 64 at Rock Island Arsenal which is mandated by an Illinois Environmental Protection Agency (IEPA) Notice of Violation (NOV). These efforts support the Current transition path of the Transformation Campaign Plan (TCP).

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

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:

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

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 04</u>	<u>FY 05</u>
Rock Island Arsenal Rock Island, Illinois	Layaway of Industrial Facilities (LIF)	7667	2.212	1.384
Watervliet Arsenal Watervliet, New York	Layaway of Industrial Facilities (LIF)	7667	0.360	0.615
	Total		2.572	1.999

Exhibit P-17 Layaway and/or Distribution

Date:
February 2004

Appropriation / Budget / Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles					P-1 Item Nomenclature LAYAWAY OF INDUSTRIAL FACILITIES				
Project:	7667	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Funding:			1.789	2.212	1.384	.441	1.009	1.008	1.007

Title: Layaway of Industrial Facilities (LIF)
Description: This FY 05/06 project provides for preserving/storing/disposing facilities/equipment in Bldg 220 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&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. Excessing 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. Effort will fund Phase 3 of Resource Conservation and Recovery Act (RCRA) Closure of Bldg 64. The Illinois Environmental Protection Agency (IEPA) issued a Notice of Violation (NOV) for unauthorized treatment, storage, and disposal of hazardous waste streams. The NOV mandated the bldg be closed IAW RCRA procedures. Project will complete IEPA mandated subsurface investigations on the interior/exterior of Bldg 64 subsurface remedial designs, and actual remediation. Investigations include: hydraulic conductivity test of deep well 51 to determine if contamination from Bldg 64 is entering the drinking water aquifer, sampling interiors and subsurfaces of 3 steam tunnels, and installing additional groundwater monitoring wells to determine depth of contamination. Failure to complete this work could result in a fine being imposed on the Army. Project satisfies Rand Corp recommendations IAW PBD 407.

Manufacturer (Name and Location) Rock Island Arsenal Rock Island, Illinois	Production Lines being laid away (Include Location) Building 220	Production Ends June 2003
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Layaway Cost:	1.384	Other Costs:	.000	Annual Maintenance Cost:	.000				
Project:	7667	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Funding:			.848	.360	.615	.953	.980	1.020	1.058

Title: Layaway of Industrial Facilities (LIF)
Description: This Fiscal Year 2005 effort will provide for preserving/storing/disposing of industrial facilities/equipment no longer required to support production. Funds for protection/preservation of equipment/facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Effort will excess seven (7) machines, excess/layaway 155 pieces of measuring equipment and perform plant restoration on three machine foundations. The Fiscal Year 2006 effort will provide for preserving/storing/disposing of industrial facilities/equipment no longer required to support production. Funds for protection/preservation of equipment/facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Effort will excess 10 machines and perform plant restoration on the resulting machine foundations.

Manufacturer (Name and Location) Watervliet Arsenal Watervliet, New York	Production Lines being laid away (Include Location) Areas in Buildings 35 and 20	Production Ends September 2003
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Layaway Cost:	.615	Other Costs:	.000	Annual Maintenance Cost:	.000
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Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
INDUSTRIAL PREPAREDNESS (GC0075)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	62.8	2.9	3.4	7.3	6.1	2.6	2.8	2.9	3.1	3.0		97.0
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	62.8	2.9	3.4	7.3	6.1	2.6	2.8	2.9	3.1	3.0		97.0
Initial Spares												
Total Proc Cost	62.8	2.9	3.4	7.3	6.1	2.6	2.8	2.9	3.1	3.0		97.0
Flyaway U/C												
Wpn Sys 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.

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 49 layaway machine tools (IPE), gauges, special measuring equipment, tooling and fixturing stored at Watervliet Arsenal.

This system supports the current transition path of the Transformation Campaign Plan (TCP).

Justification:

FY05 provides funds for the maintenance of layaway 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 Army Reserve Plants (ARPs) 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.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

Appropriation/Budget Activity/Serial No:

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

P-1 Item Nomenclature

INDUSTRIAL PREPAREDNESS (GC0075)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: INDUSTRIAL PREPAREDNESS (GC0075)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Hawthorne Army Depot					47			52			49			
Rock Island Arsenal					1500			1796			1849			
Watervliet Arsenal					1574			827			731			
Arsenal Support Program Incentive (ASPI)					4200			3454						
Total					7321			6129			2629			

Exhibit P-26 Maintenance of Inactive Industrial Facilities

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

Date:
February 2004

Inactive Lines at Active Plants		Facility: Hawthorne Army Depot			Contractor: Day & Zimmerman, Hawthorne Corporation			
Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Maintenance Cost								
Recurring Overhead								
Environmental								
Other		47	52	49	53	57	61	69

Description: The Fiscal Year (FY) 2005/2006 requirement will provide for contractor storage and inspection of Industrial Plant Equipment (IPE) at Hawthorne Army Depot (HWAD). These costs represent a contractual commitment.

Inactive Lines at Active Plants		Facility: Rock Island Arsenal			Contractor: Not Applicable			
Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Maintenance Cost		1500	1796	1849	2046	1883	1916	1949
Recurring Overhead								
Environmental								
Other								

Description: The Fiscal Year (FY) 2005/2006 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.

Inactive Lines at Active Plants		Facility: Watervliet Arsenal			Contractor: Not Applicable			
Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Maintenance Cost		1574	827	731	725	965	1105	1000
Recurring Overhead								
Environmental								
Other								

Description: The Fiscal Year (FY) 2005/2006 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.

Exhibit P-26 Maintenance of Inactive Industrial Facilities

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

Date:
February 2004

Inactive Lines at Active Plants		Facility: Arsenal Support Program Incentive (ASPI)			Contractor:			
Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Maintenance Cost		4200	3454					
Recurring Overhead								
Environmental								
Other								

Description: The Arsenal Support Program Initiative (ASPI) is for the manufacturing arsenals; it is a sister program to the Army ammunition plants' Armament, Retooling, Manufacturing Support (ARMS) program. The purpose of the ASPI is to provide a mechanism to allow the manufacturing plants to maintain their capability to support DoD and yet not become too expensive to maintain.

		Facility:			Contractor:			
Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Maintenance Cost								
Recurring Overhead								
Environmental								
Other								

Description:

		Facility:			Contractor:			
Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Maintenance Cost								
Recurring Overhead								
Environmental								
Other								

Description:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /2/Weapons and other combat vehicles	P-1 Item Nomenclature SMALL ARMS (SOLDIER ENH PROG) (GC0076)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	20.0	2.1	0.3	3.5	1.2	3.5	3.9	2.6	5.3	1.2		43.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.0	2.1	0.3	3.5	1.2	3.5	3.9	2.6	5.3	1.2		43.8
Initial Spares												
Total Proc Cost	20.0	2.1	0.3	3.5	1.2	3.5	3.9	2.6	5.3	1.2		43.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides small arms equipment for the soldier. Funding will provide the soldier with a Sniper Accessory Kit that will contain a hand held wind meter, a low profile bipod, a polarized filter for a day scope, a compact cleaning kit, a ballistic calculator, a range data book, a stock pack and a drag bag (all are available as non-developmental items). It will also provide a MK93 Dual Mount that can be used in both the vehicular (Armament HMMWV) and ground mount application for the MK19 Grenade Machine Gun (GMG) and H2 Heavy Barrel Machine Gun; the M203 Rail System (RS) which provides targeting capability for 40mm night engagements; the Combat Ammunition Pack for the M240B 7.62mm Machine Gun which will hold 50-100 rounds and protect the ammo belt from dirt and debris while providing the capability to deliver forward walking assault fire; close combat mission capability weapon kits to enhance pre-deployment preparation and tactics for small arms weapons systems; and M9/M11 Pistol Rails which will provide a MIL-STD-19193 mounting interface for mounting laser/white light aiming device to increase target acquisition capability and situational awareness. 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 deployed. These items support the Current Force transition path of the Transformation Campaign Plan (TCP).

Justification:

FY04/05 procures Combat Ammunition Packs and M9/M11 Pistol Rails. The Combat Ammunition Pack will hold 50-100 rounds and protect the ammo belt from dirt and debris while providing the capability to deliver forward walking assault fire. The M9/M11 Pistol Rails will provide a MIL-STD-19193 mounting interface for mounting laser/white light device to increase target acquisition capability and situational awareness. In FY05, M240 Combat Ammunition Packs are being procured under the Rapid Fielding Initiative.

FY 2003 includes supplemental funding of \$0.9M for Small Arms Soldier Enhancement Program.

FY 2004 includes supplemental funding of \$0.1M for Small Arms Soldier Enhancement Program.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: SMALL ARMS (SOLDIER ENH PROG) (GC0076)			Weapon System Type:			Date: February 2004			
WTCV Cost Elements		ID CD				FY 03			FY 04			FY 05		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
1. HARDWARE														
M9/M11 Pistol Rails												669	9914	1
Sniper Accessory Kit					182	325	1							
Combat Ammo Pack					76	833	0	450	4945	0				
Rapid Fielding Initiative					1361			126				1811		
2. ESIP														
M9/M11 Pistol Rails												85		
Sniper Accessory Kit					83									
Combat Ammo Pack					307			150						
Rapid Fielding Initiative					244			2				201		
3. INTEGRATED LOGISTICAL SUPPORT														
M9/M11 Pistol Rails												25		
Sniper Accessory Kit														
Combat Ammo Pack					74									
4. FIELDING														
M9/M11 Pistol Rails												30		
Sniper Accessory Kit					10									
Combat Ammo Pack					40									
5. PM-Soldier Weapons Support					1149			509				671		
Total					3526			1237				3492		

Exhibit P-5a, Budget Procurement History and Planning

Date:

February 2004

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 (SOLDIER ENH PROG) (GC0076)

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

M9/M11 Pistol Rails

FY 2005

TBS

C/FFP

TACOM, Picatinny, NJ

Dec 04

Jul 05

9914

1

Sniper Accessory Kit

FY 2003

Various

Option

TACOM, Picatinny, NJ

Jan 03

May 03

325

1

Combat Ammo Pack

FY 2003

Manroy, Inc
United Kingdom

SS/FFP

TACOM, Picatinny, NJ

Dec 03

Mar03

833

0

FY 2004

TBS

C/FFP

TACOM, Picatinny, NJ

Jun 04

Sep 04

4945

0

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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

P-1 Item Nomenclature
REF Small Arms (G15400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost					6.0	1.0						7.0
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)					6.0	1.0						7.0
Initial Spares												
Total Proc Cost					6.0	1.0						7.0
Flyaway U/C												
Wpn Sys 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.

REF received \$6M in the FY04 Supplemental to initiate the program.

Justification:

FY 2005 funds will continue to procure emerging technology defensive equipment and rapidly enhance field equipment being utilized in the current combat operational theaters. FY 2004 continues to support high capacity magazines, automatic gun system for PILAR, mortars for counter mortar system, and non-lethal weapons.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2004

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:
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	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	102.7	26.1	22.4	22.9	17.9	20.1	43.3					255.3
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	102.7	26.1	22.4	22.9	17.9	20.1	43.3					255.3
Initial Spares												
Total Proc Cost	102.7	26.1	22.4	22.9	17.9	20.1	43.3					255.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Justification:

FY05 procures depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Some of the WTCV systems included in this requirement are: M1 Series Tank, M88 Series Tank Recovery Vehicle, Bradley Fighting Vehicle, and other Tank and Automotive systems.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2004

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)

Program Elements for Code B Items:

Code:

Other Related Program Elements: