

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
Fiscal Year (FY) 2006/2007 Budget Estimates

WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION

February 2005

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, \$1,660,149,000, to remain available for obligation until September 30, 2008.

PERFORMANCE METRICS

Performance metrics used in the preparation of this Justification Book may be found in the FY06 Army Performance Budget Justification Book, dated 18 February 2005

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DEPARTMENT OF THE ARMY
FY 2006 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
President's Budget FY 2006/2007

EXHIBIT P-1
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APPROPRIATION SUMMARY

APPROPRIATION

Procurement of W&TCV, Army

TOTAL PROCUREMENT PROGRAM

DOLLARS IN THOUSANDS

<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
1,997,655	2,457,966	1,660,149	1,487,520
1,997,655	2,457,966	1,660,149	1,487,520

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APPROPRIATION Procurement of W&TCV, Army ACTIVITY		DOLLARS IN THOUSANDS				PAGE
		FY 2004	FY 2005	FY 2006	FY 2007	
01	Tracked combat vehicles	1,787,287	2,288,096	1,450,144	1,254,596	4
02	Weapons and other combat vehicles	192,472	149,860	206,663	232,924	6
03	Spare and repair parts	17,896	20,010	3,342		8
APPROPRIATION TOTALS		1,997,655	2,457,966	1,660,149	1,487,520	

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DEPARTMENT OF THE ARMY
FY 2006 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
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APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 01 Tracked combat vehicles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004		FY 2005		FY 2006		FY 2007	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST
<i>TRACKED COMBAT VEHICLES</i>										
1	ABRAMS TRNG DEV MOD (GA5208)			6,206		3,629		3,754		1,098
2	BRADLEY BASE SUSTAINMENT (G80718)	B		344,520		223,412		37,908		
3	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	A		3,372		2,445		5,679		4,795
4	ABRAMS TANK TRAINING DEVICES (GB1300)	A				6,997		3,709		1,098
5	STRYKER (G85100)		371	962,682	576	1,524,165	240	878,449	130	719,486
	<i>SUB-ACTIVITY TOTAL</i>			<u>1,316,780</u>		<u>1,760,648</u>		<u>929,499</u>		<u>726,477</u>
<i>MODIFICATION OF TRACKED COMBAT VEHICLES</i>										
6	CARRIER, MOD (GB1930)	A		40,770		10,459				
7	FIST VEHICLE (MOD) (GZ2300)			36,532		1				
8	MOD OF IN-SVC EQUIP, FIST VEHICLE (GZ2320)			2,871		667				
9	BFVS SERIES (MOD) (GZ2400)	A		41,565		72,643		45,265		77,232
10	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	A		34,335		18,279		14,801		29,110
11	FAASV PIP TO FLEET (GA8010)	A		10,900		7,266		6,439		
12	M1 ABRAMS TANK (MOD) (GA0700)	A		111,056		116,466		443,475		368,916
13	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)	B	37	180,050	64	291,024				40,944
14	ABRAMS UPGRADE PROGRAM (GA0750)	A		1,928						
	<i>SUB-ACTIVITY TOTAL</i>			<u>460,007</u>		<u>516,805</u>		<u>509,980</u>		<u>516,202</u>
<i>SUPPORT EQUIPMENT AND FACILITIES</i>										

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APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 01 Tracked combat vehicles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004		FY 2005		FY 2006		FY 2007	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST
15	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)			388		405		407		415
16	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			10,112		10,238		10,258		11,502
	<i>SUB-ACTIVITY TOTAL</i>			<u>10,500</u>		<u>10,643</u>		<u>10,665</u>		<u>11,917</u>
	ACTIVITY TOTAL			<u>1,787,287</u>		<u>2,288,096</u>		<u>1,450,144</u>		<u>1,254,596</u>

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004		FY 2005		FY 2006		FY 2007	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST
<i>WEAPONS AND OTHER COMBAT VEHICLES</i>										
17	Integrated Air Burst Weapon System Family (G16101)	A				498		32,484		32,681
18	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	A	1,442	17,112	2,025	25,151	1,197	14,148	694	11,545
19	MACHINE GUN, 5.56MM (SAW) (G12900)	A	1,982	8,573		80		80		82
20	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	A					352	8,715		
21	Mortar Systems (G02200)		577	8,029	577	5,238		200		
22	M16 RIFLE (G14900)	A					14,500	8,000	2,950	1,866
23	M107, CAL. 50, SNIPER RIFLE (G01500)		600	9,172	510	8,837	600	9,656	545	8,431
24	5.56 CARBINE M4 (G14904)	A	8,158	8,911	8,849	9,340	2,106	3,215		91
25	Common Remotely Operated Weapons Station (CROWS) (G04700)				28	8,467				
26	HOWITZER LT WT 155MM (T) (G01700)			7,939	18	37,065	23	46,786	67	130,871
	<i>SUB-ACTIVITY TOTAL</i>			<u>59,736</u>		<u>94,676</u>		<u>123,284</u>		<u>185,567</u>
<i>MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES</i>										
27	MARK-19 MODIFICATIONS (GB3000)			3,816		4,220		5,444		3,359
28	M4 CARBINE MODS (GB3007)	A		48,249		13,724		44,817		17,064
29	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)			13,058		3,369		3,095		5,314
30	Medium Machine Guns (MODS) (GZ1300)	A		3,922		3,396		7,089		5,355
31	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)		13	9,650	13	776				
32	M119 MODIFICATIONS (GC0401)	A						1,000		1,025

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APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 02 Weapons and other combat vehicles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004		FY 2005		FY 2006		FY 2007	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST
33	M16 RIFLE MODS (GZ2800)	A		18,386		2,336		1,970		1,024
34	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)			6,074		3,232		5,146		1,720
	<i>SUB-ACTIVITY TOTAL</i>			<u>103,155</u>		<u>31,053</u>		<u>68,561</u>		<u>34,861</u>
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>									
35	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)			2,336		484		488		500
36	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			7,036		6,594		6,494		6,239
37	INDUSTRIAL PREPAREDNESS (GC0075)			6,129		12,580		2,655		2,975
38	SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)			8,080		3,479		5,181		2,782
39	REF Small Arms (G15400)	A		6,000		994				
	<i>SUB-ACTIVITY TOTAL</i>			<u>29,581</u>		<u>24,131</u>		<u>14,818</u>		<u>12,496</u>
	ACTIVITY TOTAL			<u>192,472</u>		<u>149,860</u>		<u>206,663</u>		<u>232,924</u>

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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 2004		FY 2005		FY 2006		FY 2007		
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	
	<i>SPARES AND REPAIR PARTS</i>										
40	SPARES AND REPAIR PARTS (WTCV) (GE0150)			17,896		20,010		3,342			
	<i>SUB-ACTIVITY TOTAL</i>			<u>17,896</u>		<u>20,010</u>		<u>3,342</u>			
	ACTIVITY TOTAL			<u>17,896</u>		<u>20,010</u>		<u>3,342</u>		<u>0</u>	
	APPROPRIATION TOTAL			<u>1,997,655</u>		<u>2,457,966</u>		<u>1,660,149</u>		<u>1,487,520</u>	

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4	GB1300	ABRAMS TANK TRAINING DEVICES	16
5	G85100	STRYKER	21
6	GB1930	CARRIER, MOD	30
7	GZ2300	FIST VEHICLE (MOD)	38
8	GZ2320	MOD OF IN-SVC EQUIP, FIST VEHICLE	43
9	GZ2400	BFVS SERIES (MOD)	44
10	GA0400	HOWITZER, MED SP FT 155MM M109A6 (MOD)	56
11	GA8010	FAASV PIP TO FLEET	60
12	GA0700	M1 ABRAMS TANK (MOD)	66
13	GA0730	SYSTEM ENHANCEMENT PGM: SEP M1A2	99
14	GA0750	ABRAMS UPGRADE PROGRAM	104
15	GL3100	ITEMS LESS THAN \$5.0M (TCV-WTCV)	105
16	GA0050	PRODUCTION BASE SUPPORT (TCV-WTCV)	108
17	G16101	Integrated Air Burst Weapon System Family	111
18	G13000	ARMOR MACHINE GUN, 7.62MM M240 SERIES	119
19	G12900	MACHINE GUN, 5.56MM (SAW)	128
20	G13400	GRENADE LAUNCHER, AUTO, 40MM, MK19-3	133
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25	G04700	Common Remotely Operated Weapons Station (CROWS)	163
26	G01700	HOWITZER LT WT 155MM (T)	167
27	GB3000	MARK-19 MODIFICATIONS	175
28	GB3007	M4 CARBINE MODS	183
29	GZ1290	SQUAD AUTOMATIC WEAPON (MOD)	193
30	GZ1300	Medium Machine Guns (MODS)	203
31	GA0430	HOWITZER, TOWED, 155MM, M198 (MODS)	209
32	GC0401	M119 MODIFICATIONS	211
33	GZ2800	M16 RIFLE MODS	212
34	GC0925	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)	218
35	GL3200	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	224
36	GC0050	PRODUCTION BASE SUPPORT (WOCV-WTCV)	225
37	GC0075	INDUSTRIAL PREPAREDNESS	232
38	GC0076	SMALL ARMS EQUIPMENT (SOLDIER ENH PROG)	236
39	G15400	REF Small Arms	239
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Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	45.3	5.4	6.2	3.6	3.8	1.1	1.1	1.1				67.6
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)	45.3	5.4	6.2	3.6	3.8	1.1	1.1	1.1				67.6
Initial Spares												
Total Proc Cost	45.3	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.

Justification:

FY2006/2007 procures software to upgrade Abrams tank training devices to keep training device software in sync with software changes on the tank. This program meets needs validated by the Abrams tank user community. The trainers detailed herein are for units at U.S. Army Forces Command, U.S. Army, Europe, U.S. Army Training and Doctrine Command, 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 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Conduct of Fire Trmr (COFT) Conv.											
1-97-05-4526	Operational	22.3	2.0	1.5	0.4	0.4	0.4	0.0	0.0	0.0	27.0
M1A2 AGTS / Sep Modification											
1-97-05-4527	Operational	3.1	1.5	1.7	0.4	0.4	0.4	0.0	0.0	0.0	7.5
CCTT SEP Modification											
1-97-05-4529	Operational	2.7	0.0	0.5	0.3	0.3	0.3	0.0	0.0	0.0	4.1
Prior Year Closed Modifications											
0-00-00-0000		27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3
Institutional Trainer Upgrades											
0-00-00-0000		1.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Totals		56.9	3.6	3.8	1.1	1.1	1.1	0.0	0.0	0.0	67.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /1/Tracked combat vehicles	P-1 Item Nomenclature BRADLEY BASE SUSTAINMENT (G80718)
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Program Elements for Code B Items:	Code: L	Other Related Program Elements:
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	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty		191	154				50	76				471
Gross Cost	2631.0	447.6	344.5	223.4	37.9		95.3	138.8	2.4	3.0		3924.0
Less PY Adv Proc	12.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		22.5
Plus CY Adv Proc	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		22.5
Net Proc (P-1)	2641.2	437.4	344.5	223.4	37.9		95.3	138.8	2.4	3.0		3924.0
Initial Spares	42.1	13.0	12.5	8.6								76.3
Total Proc Cost	2683.2	450.4	357.1	232.1	37.9		95.3	138.8	2.4	3.0		4000.2
Flyaway U/C												
Wpn Sys Proc U/C		2.3	2.2				1.9	1.8				

Description:

The Bradley Base Sustainment Program's purpose is to upgrade earlier versions of the Bradley family of vehicles into the A2 Operation Desert Storm and the A3 variants. 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 maintain combat overmatch of current and future threat forces and remain operationally compatible with the M1A2 Abrams SEP Tank. All systems will be acquired through the Bradley Integrated Management (BIM) process which is a partnership between the prime contractor United Defense Limited Partnership (UDLP) and the Red River Army Depot.

Justification:

FY 2006 funds the annualized cost associated with the deliveries and fielding of the FY04 production contract. Due to administrative and production lead times, vehicles procured in FY04 will be fielded through FY06. The Bradley A3 will meet requirements identified for spiral technology integration from the Future Combat Systems.

FY05 funding includes Congressional plus ups of \$114M for ODS+ vehicles, \$34M Bradley Integrated Management(BIM), and \$4.9M for A3 Diagnostics. This BIM funding is to provide for the long-term sustainment and modernization of the Bradley Vehicle Fleet.

FY05 funding does not include \$14.166 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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)			284283	154	1846	148000			37908					
BRADLEY BASE SUSTAINMENT (A3)			60237			75412								
Total			344520			223412			37908					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	751	53	154				50	76				1084
Gross Cost	1017.7	53.6	284.3	148.0	37.9		95.3	138.8	2.4	3.0		1781.0
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)	1017.7	53.6	284.3	148.0	37.9		95.3	138.8	2.4	3.0		1781.0
Initial Spares												
Total Proc Cost	1017.7	53.6	284.3	148.0	37.9		95.3	138.8	2.4	3.0		1781.0
Flyaway U/C												
Wpn Sys Proc U/C		1.0	1.8				1.9	1.8				

Description:

The Bradley Base Sustainment Program upgrades the Bradley A2 platforms into other configurations--A3, Bradley Fire Support Team (BFIST) Vehicles and A2 Operation Desert Storm (ODS), and funds fielding of the various Bradley vehicles to active and reserve component forces. The A3 adds the Integrated Bradley Acquisition Sub-System (IBAS) and the Commander's Independent Viewer (CIV) to 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.

Justification:

FY2005 funding consists of Congressional plus ups of \$114.0M for ODS+ and \$34M for Bradley Integrated Management (BIM), and procures the initial components required to upgrade existing Bradleys to an A3 based configuration. This BIM funding is to provide for the long-term sustainment and modernization of the Bradley Vehicle Fleet.

FY2006 procures the annualized cost associated with the deliveries and fielding of the FY2004 production contract. Due to administrative and production lead times, vehicles procured in FY2004 will be fielded through FY2006.

FY2008 & FY2009 will be used to remanufacture vehicles with capabilities based upon lessons learned from Operation Iraqi Freedom.

FY05 funding does not include \$14.166 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

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 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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		6105	10	611									
Other GFE (New)		1325	10	133									
Other GFE (Reman)		248	10	25									
Contractor Engineering		3165											
Fielding		1657											
ODS Program		12500											
ODS+ Program													
ODS+ Vehicles		225530	144	1566	148000								
FLIR		16261	131	124									
Other GFE		19755											
Government Engineering								12491					
Project Management Administration								2624					
Reimbursable Matrix Support								6892					
System Technical Support								15325					
Test and Evaluation		2110						576					
Peculiar Support Equipment		759											
Fielding		7368											
ODS+ Vehicles		271783			148000			37908					
Total		284283			148000			37908					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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 2004	UDLP/RRAD York PA	SS/FFP	TACOM	MAY-04	JUN-05	10	611	YES		
ODS+ Vehicles FY 2004	UDLP/RRAD York PA	SS/ FFP	TACOM	JUN-04	APR-05	144	1566	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	457	138										595
Gross Cost	1613.3	394.0	60.2	75.4								2142.9
Less PY Adv Proc	12.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
Plus CY Adv Proc	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
Net Proc (P-1)	1623.5	383.8	60.2	75.4								2142.9
Initial Spares	42.1	13.0	12.5	8.6								76.2
Total Proc Cost	1665.5	396.8	72.8	84.0								2219.1
Flyaway U/C												
Wpn Sys Proc U/C		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 over other Bradley platforms in order to retain combat overmatch. Specifically, the A3 conversion improves on the Operation Desert Storm (ODS) variant through the addition of two 2nd Generation Forward Looking Infrared (FLIR) devices (one for the gunner, one for the commander), upgraded core electronics, improved ballistic fire control, enhanced command and control, situational awareness, and a collective Nuclear, Biological, and Chemical (NBC) protection system.

Justification:

FY05 funding includes a Congressional plus up of \$4.9M for A3 diagnostics. The Bradley A3 will meet requirements identified spiral technology integration from the Future Combat Systems.

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 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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													
Improved Bradley Acq Subsystem (IBAS)													
Forward Looking Infrared (FLIR)													
Other GFE													
Reman (Contractor)													
Pre Mod Depot Maint													
Sub total													
Other Production Cost													
Engineering - Government		9454			9839								
Engineering - Contractor		22040			22371								
Project Management Administration		2900			3019								
Reimbursable Matrix Support		4943			4700								
Test and Eval		2214			1178								
Business Base Adjustment					13193								
Sub total		41551			54300								
Cummins Engine Life-of-Type Buy (FY1997)													
Peculiar Support Equipment		416			2366								
Fielding		18270			13846								
Assemble 10 ODS Vehicles (FY2003)													
A3 Diagnostics					4900								
Sub Total		18686			21112								
GROSS P-1 END COST		60237			75412								
LESS: PRIOR YEAR ADV PROC													
NET P-1 FULL FUNDING COST		60237			75412								
PLUS: P-1 CY ADV PROC													
OTHER NON P-1 COSTS													
INITIAL SPARES		12546			8607								
MODS													
TOTAL		12546			8607								
Total		72783			84019								

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	58.0	8.3	3.4	2.4	5.7	4.8	4.6	4.3				91.5
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)	58.0	8.3	3.4	2.4	5.7	4.8	4.6	4.3				91.5
Initial Spares												
Total Proc Cost	58.0	8.3	3.4	2.4	5.7	4.8	4.6	4.3				91.5
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 such as Operation Iraqi Freedom (OIF) modifications. Current vehicle plans call for periodic software updates. These changes will affect the functionality of the Bradley Advanced Training System (BATS) and the M2A3 Maintenance Trainers.

Justification:

FY2006/2007 procures OIF modifications to Precision Gunnery trainers and appended devices 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 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Close Combat Tactical Trainer											
1-01-05-0010	Operational	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0
Appended Devices											
1-99-05-4567	Operational	3.9	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	4.9
Bradley Advanced Training Systems											
2-02-05-0010	Operational	7.9	1.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	10.3
Software Upgrades											
1-96-05-4513	Operational	14.3	0.2	1.3	4.6	4.4	4.1	0.0	0.0	0.0	28.9
Maintenance Trainer Mods											
1-99-05-4568	Operational	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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	8.8	1.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	12.6
Totals		69.8	2.4	5.7	4.8	4.6	4.3	0.0	0.0	0.0	91.6

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	115.1	11.7		7.0	3.7	1.1	1.1	1.1			29.7	170.6
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)	115.1	11.7		7.0	3.7	1.1	1.1	1.1			29.7	170.6
Initial Spares												
Total Proc Cost	115.1	11.7		7.0	3.7	1.1	1.1	1.1			29.7	170.6
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.
- Maintenance Trainers - These systems provide training in essential unit and direct support/general support tasks. There are four different trainers: Hands-on-Trainer (HOT); Hull Electrical Diagnostic/Troubleshooting (D/T) Trainer; Turret/Fire Control D/T Trainer; and Direct Support Electrical System Test Set Line Replaceable Unit (DSESTS LRU) simulators. The students will learn about the sub-systems and procedures for troubleshooting and fault isolating the tank system. The intended sites are Ft. Knox and Aberdeen Proving Ground.
- Non System Integration Kits provide system unique kits allowing the installation of non-system training devices such as the Thru Sight Video (TSV), Tank Weapon Gun Simulation System (TWGSS), Precision Range Integrated Maneuver Exercise (PRIME) and Multiple Integrated Laser Engagement System (MILES) into the tank.
- System Enhancement Program (SEP) Integration - This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.
- Abrams Integrated Management (AIM) - This funding provides for integration of AIM improvements into the various training devices impacted by those changes in the tank.
- .50 Caliber Inbore Sub Caliber Training Devices - FY05 funding was a Congressional plus up for procurement of 226 training devices.

Justification:

FY 2006/2007 procures the integration of improvements into the various training devices impacted by changes on the tank, and software upgrades required to keep training device software in sync with the software changes on the tanks.

FY2005 funds of \$3.4 Million was a congressional plus up for procurement of .50 Caliber Inbore Sub Caliber Training Devices.

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 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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.	A				175			1500			652		
a. AGTS Software					375								
b. AGTS Gov't Spt.					25								
c. AGTS Non Recurring Cost													
AGTS SUBTOTAL					575			1500			652		
2. ABRAMS MAINTENANCE TRAINERS					2103	8	263						
a. Hardware					277								
b. Government Support													
c. Non-Recurring Cost													
MTS SUBTOTAL					2380								
3. NON SYS. INTEGR. KITS (NSI)								1709					
a. NSI Software													
b. NSI Gov't Spt.					400								
c. NSI Non Recurring Cost													
NSI SUBTOTAL					400			1709					
4. SOFTWARE UPGR. (SWU)					242			500			446		
a. Abrams Common Software Library													
b. SWU Gov't Spt.													
c. SWU Non Recurring Cost													
SWU SUBTOTAL					242			500			446		
5. 50 CALIBER TRAINING DEVICE					3400	226	15						
Total					6997			3709			1098		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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. GNRY TRNG. SYS.										
FY 2005	TBS	TBD	STRICOM	Jun 05	Apr-06			no	no	n/a
FY 2006	TBS	TBD	STRICOM	Jun 06	Apr 07			no	no	n/a
FY 2007	TBS	TBD	STRICOM	Jun 07	Apr 08			no	no	n/a
2. ABRAMS MAINTENANCE TRAINERS										
FY 2005	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Dec 04	Jan 06	8	263	yes	no	n/a
3. NON SYS. INTEGR. KITS (NSI)										
FY 2005	various	C-FFP	STRICOM	May-05	Mar-06			no	no	n/a
FY 2006	various	C-FFP	STRICOM	may-06	May-07			no	no	n/a
NSI SUBTOTAL										
4. SOFTWARE UPGR. (SWU)										
FY 2005	Oasis Adv Engr, Inc. Auburn, MI	C-FFP	TACOM	Jun 05	Jun-06			yes	no	n/a
FY 2006	Oasis Adv Engr, Inc. Auburn, MI	C-FFP	TACOM	Jun 06	Jun 07			yes	no	n/a
FY 2007	Oasis Adv Engr, Inc. Auburn, MI	C-FFP	TACOM	Jun 07	Jun 08			yes	no	n/a
5. 50 CALIBER TRAINING DEVICE										

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 2005

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 2005	TBS	C-FFP	TACOM	Mar-05	Mar 06	226	15	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 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /1/Tracked combat vehicles	P-1 Item Nomenclature STRYKER (G85100)
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Program Elements for Code B Items: 0603653A	Code: C03	Other Related Program Elements:
------------------------------------------------	--------------	---------------------------------

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	754	281	371	576	240	130	87					2439
Gross Cost	1583.6	742.4	962.7	1524.2	878.4	719.5	549.2	204.1	268.4	205.7	938.7	8576.9
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)	1583.6	742.4	962.7	1524.2	878.4	719.5	549.2	204.1	268.4	205.7	938.7	8576.9
Initial Spares												
Total Proc Cost	1583.6	742.4	962.7	1524.2	878.4	719.5	549.2	204.1	268.4	205.7	938.7	8576.9
Flyaway U/C												
Wpn Sys Proc U/C		2.6	2.6	2.6	3.7	5.5	6.3					

Description:

The Brigade Combat Team (BCT), equipped with Stryker Vehicles, is a full spectrum combat force. 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 commanders and infantry battalion commanders with the means to receive information and data, analyze, prepare and transmit data, and control the forces/functions carrying out combat missions.

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

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

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

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2005

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:

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.

The Stryker program has been realigned to reflect decisions from the latest Defense Acquisition Board (DAB). Quantities were adjusted between fiscal years. In addition, the FY05 Department of Defense Appropriations Act increased the Stryker FY05 Procurement Appropriations by \$625 million in order to procure and field a 7th Brigade of Stryker vehicles.

Justification:

FY06/07 procures Stryker vehicles for the sixth and seventh Stryker Brigade Combat Teams (BCT). An immediate need continues for Brigade Combat Teams (BCT) equipped with Stryker vehicles, capable of deployment to anywhere on the globe in a combat ready configuration. Stryker brigades are currently deployed in theater operations in support of the Global War On Terrorism, and Operation Iraqi Freedom. 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.

NBC Reconnaissance Vehicle:

Live Fire Test & Evaluation: 2QFY06 - 1QFY07

Production Verification Test: 1QFY06 - 4QFY07

Production Qualification Test: 3QFY03 - 2QFY04

Initial Operational Test & Evaluation: 4QFY06 - 1QFY07

Limited User Test (LUT): 4QFY03 - 1QFY04

Mobile Gun System:

Production Qualification Test: Mar 03 - Jul 04

Live Fire Test & Evaluation: 1QFY06 - 1QFY07

Production Verification Test: 1QFY06 - 1QFY07

Initial Operational Test & Evaluation: 3QFY06 - 4QFY06

Limited User Test (LUT): Apr 04 - Aug 04

Mortar Carrier Version B:

Initial Operation Test & Evaluation: 3QFY06 - 1QFY07

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 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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)		183378	128	1433	405119	267	1517	155858	98	1590	70310	37	1900
-ICV Block Improvements		2792			5690			2089			789		
-Reconnaissance Vehicle (RV)		144331	116	1244	83685	64	1308	57606	42	1372			
-RV Block Improvements		2472			1364			895					
-Anti-Tank Guided Missile Vehicle (ATGM)													
-ATGM Block Improvements													
-Mortar Carrier (MC)		52829	37	1428	107344	73	1470	38575	21	1837	27825	15	1855
-MC Block Improvements		7012			13834			3980			2843		
-Fire Support Vehicle (FSV)		35464	27	1313	32630	25	1305	9584	7	1369			
-FSV Block Improvements		575			533			149					
-Engineer Squad Vehicle (ESV)		21962	10	2196	49890	22	2268	19165	8	2396			
-ESV Block Improvements		213			469			170					
-Commander's Vehicle (CV)		36978	25	1479	47689	30	1590	84975	51	1666			
-CV Block Improvements		533			639			1087					
-Medical Evacuation Vehicle (MEV)		22717	19	1196	36923	29	1273	17471	13	1344			
-MEV Block Improvements		405			618			277					
-NBC Reconnaissance Vehicle (NBCRV)		29875	9	3319	17010	8	2126				34782	13	2676
-NBCRV Block Improvements		192			170						277		
-Mobile Gun System (MGS)					224458	58	3870	27321			375009	65	5769
-MGS Block Improvements		42			1236						1385		
Stryker Vehicles Total		541770			1029301			419202			513220		
Government Furnished Equipment/ASIOE		31112			54470			24351			11157		
- Long Range Adv Scout Surveillance FS3		9311			8762			2896					
- Long Range Adv Scout Surveillance RV		40003			23437			17378					
- M707 Striker MEP		4863			4050			1154					
- Lightweight Laser Designator/Rangefind													
Engineering Change Proposal (ECP)		17187			18414			7627			8871		
Basic Issue Items (BII)		2734			4143			1628			1000		
Production Verification Test													
- Government PVT		16961			24608			32654			15745		
- Contractor Support to PVT		31830			13312			11204			1558		
Comparison Evaluation													
Refurbishment of Test Vehicles		394			6058			6738			4633		
Program Management Support (Govt)		38120			40155			40875			36779		
System Fielding Support		50205			65252			29696			16347		
Block Improvement Retrofit (Bde 1 & 2)		184			27187			73208			44		
Initial Spares		4220			13613			5237			4177		

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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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			28269			34628			23545			12403		
System Technical Support (STS)						156775			50275			32177		
Post Deployment Software Support (PDSS)									18424			19415		
Integrated Data Environment			1943											
Award Fee														
Pre-Planned Product Improvements (P3I)														
Facilitization			1571											
Mounted Mortar														
Add On Armor			142005						112357			41960		
Total			962682			1524165			878449			719486		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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(6-5)	TACOM	Nov 04	Oct 05	14	3870	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-4)	TACOM	Mar 04	Feb 05	212	1272	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-4)	TACOM	Jun 04	Mar 05	113	1473	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Nov 04	Aug 05	37	1470	NA	NA	
FY 2004	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Nov 04	Oct 05	9	2126	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Nov 04	Sep 05	27	1514	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Nov 04	Dec 06	8	2126	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Jan 05	Jan 06	423	1507	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-5)	TACOM	Jan 05	Feb 06	58	3870	NA	NA	
FY 2005	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-6)	TACOM	Mar 06	Feb 07	60	1486	NA	NA	
FY 2006	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(6-6)	TACOM	Mar 06	Feb 07	240	1597	NA	NA	
FY 2007	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP	TACOM	Mar 07	Feb 08	52	1887	NA	NA	
FY 2007	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP	TACOM	Mar 07	Mar 08	65	5769	NA	NA	
FY 2007	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP	TACOM	Jul 07	Jul 08	13	2676	NA	NA	

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

LRAS - FS3: Of the quantity of 78 in FY05, 53 are required for retrofit of the FSV vehicles to the FS3 configuration.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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
- Long Range Adv Scout Surveillance FS3										
FY 2004	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 04	Apr 05	27	359	Yes	NA	
FY 2005	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 05	Apr 06	78	407	Yes	NA	
FY 2006	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 06	Apr 07	7	414	Yes	NA	
- Long Range Adv Scout Surveillance RV										
FY 2004	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 04	Jul 05	116	377	Yes	NA	
FY 2005	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 05	Apr 06	64	407	Yes	NA	
FY 2006	Raytheon Company McKinney, TX	C/FFP	CECOM	Feb 06	Apr 07	42	414	Yes	NA	
- M707 Striker MEP										
FY 2004	Systems & Electronics, Inc. Sanford, FL	OPTION	TACOM	Mar 04	Apr 05	27	115	Yes	NA	
FY 2005	Systems & Electronics, Inc. Sanford, FL	SS/FFP	TACOM	May 05	Mar 06	25	125	Yes	NA	
FY 2006	Systems & Electronics, Inc. Sanford, FL	SS/FFP	TACOM	Oct 05	Aug 06	7	137	Yes	NA	

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

LRAS - FS3: Of the quantity of 78 in FY05, 53 are required for retrofit of the FSV vehicles to the FS3 configuration.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /1/Tracked combat vehicles	P-1 Item Nomenclature CARRIER, MOD (GB1930)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
------------------------------------	-------	---------------------------------

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	967.6	31.8	40.8	10.5								1050.6
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)	967.6	31.8	40.8	10.5								1050.6
Initial Spares												
Total Proc Cost	967.6	31.8	40.8	10.5								1050.6
Flyaway U/C	0.0								0.0	0.0		
Wpn Sys Proc U/C												

Description:

The M113 Armored Personnel Carrier 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 expected to remain in service for the next 30 years and must be modified to increase mobility, survivability and to install operational enhancements.

Justification:

Enhancements to the M113 Family of Vehicles improves the mobility and survivability, reliability, sustainability, 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 four times the track life of the T130 track.

FY05 Program of \$10.5 million is a Congressional Plus Up

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Prior Year Closed Modifications											
0-00-00-0000		398.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	398.7
A3 Conversions											
1-84-05-4026	Oper Capability	629.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	640.4
T-150 TRACK											
0-00-00-0000	Oper Capability	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Totals		1040.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1050.7

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Prior Year Closed Modifications [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	0																				
Installation Kits	0	398.7																			398.7
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																				
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	0.0
Total Procurement Cost		398.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	398.7

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	and Prior		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	Qty	\$																		
RDT&E	0																			
Procurement	0																			
A3 Upgrades	3529	443.0	26	4.7															3555	447.7
M577A3 conversion to M1068A3	77	5.6																	77	5.6
Equipment	0	3.5		2.8																6.3
Data	0	42.4																		42.4
PM Support (Govt)	0	10.9		1.0																11.9
System Technical Support (Ctr)	0	12.3		1.2																13.5
Other	0	1.4		0.1																1.5
Pre Conversion/Modification	0	47.5		0.7																48.2
FDT	0	2.8		0.0																2.8
TPF/BII	0	7.6		0.0																7.6
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits	2338	51.4																	2338	51.4
FY2004 Equip -- Kits		1.5	81		11														92	1.5
FY2005 Equip -- Kits					26														26	
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	2338	52.9	81	0.0	37	0.0		0.0		0.0	2456	52.9								
Total Procurement Cost		629.9		10.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		640.4

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M113 FOV

DESCRIPTION/JUSTIFICATION:

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 four 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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	630																			
Outputs	427	68	68	67																

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		630
Outputs																		630

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:	4 Months	PRODUCTION LEADTIME:	4 Months
Contract Dates:	FY 2006		FY 2007		FY 2008
Delivery Date:	FY 2006		FY 2007		FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Installation Kits	630	11.0																	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																				
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	427	0.4																	427	0.4
FY2005 Equip -- Kits		0.2	203																203	0.2
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	427	0.6	203	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	630	0.6
Total Procurement Cost		11.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		11.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	442.1	6.8	36.5	0.0								485.4
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)	442.1	6.8	36.5	0.0								485.4
Initial Spares												
Total Proc Cost	442.1	6.8	36.5	0.0								485.4
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 functionality; what is not embedded is added as an engineering change proposal (ECP) to the chassis. A3 BFIST procurement occurred in FY03.

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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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														
2. M7 Vehicle Production			22336	18	1241									
SUBTOTAL			22336											
5. Engineering Production			6074											
6. Government Support			806											
7. Fielding			6083				1							
8. Test & Evaluation			1233											
9. Support Equipment														
SUBTOTAL			14196				1							
Total			36532				1							

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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	UDLP, York PA	SS/FFP	USATACOM, Warren, MI	Jun 03	Oct 03	56	45			
FY 2003	UDLP, York PA	SS/FFP	USATACOM, Warren, MI	Jun-03	Jun 05	9	72			
2. M7 Vehicle Production										
FY 2004	UDLP, York PA	SS/FFP	USATACOM, Warren, Mi	Mar-04	Sep 05	18	1241			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost		0.7	2.9	0.7								4.2
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)		0.7	2.9	0.7								4.2
Initial Spares												
Total Proc Cost		0.7	2.9	0.7								4.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Bradley Fire Support Vehicle (BFIST) Mod-In-Service line provides funding for life cycle software support to include evolutionary hardware changes for the BFIST program. These hardware changes include those due to the replacement of the Lightweight Computer Unit (LCU) due to obsolescence.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	1083.5	87.6	41.6	72.6	45.3	77.2	73.5	108.9	43.1	44.3	122.8	1800.5
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)	1083.5	87.6	41.6	72.6	45.3	77.2	73.5	108.9	43.1	44.3	122.8	1800.5
Initial Spares												
Total Proc Cost	1083.5	87.6	41.6	72.6	45.3	77.2	73.5	108.9	43.1	44.3	122.8	1800.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides for the procurement and application of modification kits for the family of Bradley Fighting Vehicles (BFVS). The modifications include the addition of a Laser Range Finder, Position Navigation System and Equipment Restow Improvement. Operational improvements are the Vehicle Intercommunications System (VIS), the Digital Electronic Control Assembly (DECA) and the capability to apply Bradley Reactive Armor Tiles (BRAT). The A2 ODS modification for combat engineers integrates the BFVS into the Army's Force XXI Battle Command, Brigade and Below (FBCB2) system for situational awareness and interoperability. The High Priority Improvement Modification reflect evolutionary improvements to the BFVS vehicle which include: Blue Force Tracking (BFT), Solid State Hard Drives (SSHD), Chassis Modification Embedded Diagnostics (CMED) and improved vehicle core electronics.

Justification:

FY2006/2007 procures High Priority Improvement and BFT modifications. These modifications will continue to meet requirements identified to correct deficiencies, reduce operation and support costs and to maintain the lethality, survivability, mobility and situational awareness of the BFVS in order to sustain combat overmatch. Reduced BFVS capability and survivability will occur if these modifications are delayed or reduced.

FY2005 funding includes a Congressional plus up of \$17.2 million for armor tiles.

FY2005 funding does not include \$58.5 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
A2 ODS Vehicle for Combat Engineers (ODS-E)											
1-98-05-4539	Operational	54.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.8
Bradley Reactive Armor Tiles (BRAT)											
1-84-05-4038	Operational	163.4	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.6
BFVS High Priority Improvements											
1-98-05-4550	Operational	254.8	41.1	40.7	58.9	53.8	79.9	43.1	44.3	122.8	739.4
Prior Year Closed Mods											
0-00-00-0000		727.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	727.8
Support for Bradley Fleet Modernization											
2-04-05-0006	Operational	0.0	0.0	0.0	0.0	10.5	29.0	0.0	0.0	0.0	39.5
Blue Force Tracking											
2-04-05-0004	Operational	12.1	9.0	4.6	18.3	9.2	0.0	0.0	0.0	0.0	53.2
Totals		1212.6	72.6	45.3	77.2	73.5	108.9	43.1	44.3	122.8	1800.3

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: A2 ODS Vehicle for Combat Engineers (ODS-E) [MOD 1] 1-98-05-4539

MODELS OF SYSTEM AFFECTED: M2A2ODS Vehicle for Combat Engineers (ODS-E)

DESCRIPTION/JUSTIFICATION:

For the Active Component (AC), The Bradley Fighting Engineer Vehicle will be integrated with a Force XXI Battle Command Brigade and Below (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 interface the vehicle system's (Bradley Eye Safe Laser Rangefinder (BELRF) 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 which will allow the engineer squad to carry its mission specific equipment and increased amounts of explosives. The ODS-E provides the Engineer Squad increased armor protection and survivability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Requirements Document Complete Sep 00
 First Production Contract May 01
 First Unit Equipped (FUE) Apr 02

Installation Schedule:

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	166	10	10	10	11																
Outputs	166	10	10	10	11																

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		207
Outputs																		207

METHOD OF IMPLEMENTATION: Depot Teams ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2006 N/A FY 2007 N/A FY 2008 N/A
 Delivery Date: FY 2006 N/A FY 2007 N/A FY 2008 N/A

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE (Cont): A2 ODS Vehicle for Combat Engineers (ODS-E) [MOD 1] 1-98-05-4539

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	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	0.6
ODS Engineering Spt.	0	3.1																		0	3.1
Training Spt.	0	1.7		0.8																0	2.5
EBC Retrofit Kits	53	1.5																		53	1.5
ODS Eng. Vehicle Engineering	0	0.7																		0	0.7
ODS Eng. Vehicle Kits	227	2.3																		227	2.3
Misc. Parts	0	0.2																		0	0.2
--	0																			0	
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	166	12.2																		166	12.2
FY2003 Equip -- Kits	0																			0	
FY2004 Equip -- Kits	0		41	4.5																41	4.5
FY2005 Equip -- Kits	0																			0	
FY2006 Equip -- Kits	0																			0	
FY2007 Equip -- Kits	0																			0	
FY2008 Equip -- Kits	0																			0	
FY2009 Equip -- Kits	0																			0	
TC Equip- Kits	0																			0	
Total Installment	166	12.2	41	4.5		0.0		0.0	207	16.7											
Total Procurement Cost		54.5		5.3		0.0		0.0		59.8											

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Bradley of Family Vehicles Fleet

DESCRIPTION/JUSTIFICATION:

Bradley Reactive Armor Tiles (BRAT) are one of the High Survivability improvements to the BFVS. The tiles provide increased armor protection and crew survivability against shaped charge threats, including hand held Anti-tank Chemical Energy Shake Charges and other classes of warheads as specified in the BFVS material need area. There are 4 configurations of tiles covering the vehicle front, sides and turret.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Critical Design Review: 3Q03
 Contractor Test and Evaluation: 1Q04
 Development Test and Evaluation: 1Q04
 Initial Operational Test and Evaluation: N/A
 IPR Production Decision: 1Q04
 TDP Available: Yes

Installation Schedule:

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	552	40	60	60																
Outputs	552	40	60	60																

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		712
Outputs																		712

METHOD OF IMPLEMENTATION:	Troop Installed	ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	6 Months
Contract Dates:	FY 2006 N/A	FY 2007 N/A		FY 2008 N/A	
Delivery Date:	FY 2006 N/A	FY 2007 N/A		FY 2008 N/A	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	and Prior		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	Qty	\$																		
RDT&E	0																			
Procurement	0																			
Kit Quantity	652	163.4	60	17.2															712	180.6
Installation Kits																				
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	512																		512	
FY2003 Equip -- Kits	40		40																80	
FY2004 Equip -- Kits	0		60																60	
FY2005 Equip -- Kits	0		60																60	
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	552	0.0	160	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	712	0.0
Total Procurement Cost		163.4		17.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		180.6

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Bradley Family of Vehicles Fleet

DESCRIPTION/JUSTIFICATION:

The Bradley Fighting Vehicle Systems (BFVS) are expected to remain in service for the next 30 years. These vehicles represent the primary mechanized infantry and cavalry forces until the fielding of the future combat system. In order to remain viable and retain a strategic edge against ever-improving threat forces, several modifications will be incorporated on these systems. The production implementation of these improvements will be incorporated into the A3 production line, but vehicles built prior to the upgrades will require modifications based on future technologies spiraled into the platforms from Future Combat Systems (FCS) as well as current technologies, Chassis Modernization Embedded Diagnostics (CMED) and the Digital Vehicle Distribution Box (DVDB).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	857	538	38	37	37	45	45	45	45	73	72	72	72	63	63	63	63	52	52	52	53
Outputs	857	538	38	37	37	45	45	45	45	73	72	72	72	63	63	63	63	52	52	52	53

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	20	20	20	20																	2517
Outputs	20	20	20	20																	2517

METHOD OF IMPLEMENTATION:	Depot Teams	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	6 Months
Contract Dates:	FY 2006 Jan 06	FY 2007 Jan 07		FY 2008 Jan 08	
Delivery Date:	FY 2006 Jul 06	FY 2007 Jul 07		FY 2008 Jul 08	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
CMED Driver Vision Upgrade	225	22.9	180	29.8	289	38.9	213	28.2	154	20.8	80	11.1							1141	151.7	
CMED Other Support	0	5.0		1.5		0.6		0.6		0.6			0.6								9.5
Wildcard Replacement	700	1.3	150	0.3															850	1.6	
Obsolescence Management	0										41.7		41.9		44.3		122.8				250.7
A2 ODS Mods		194.5																			194.5
FBCB2 Solid State Harddrive	657	5.0																	657	5.0	
Operation Enduring/Iraqi Freedom	0	20.0																			20.0
3ID Up Front Fielding Costs	0			5.5																	5.5
Other High Priority Mods	0	6.1		4.0				28.2	30.6		25.0										93.9
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	0																				
FY2003 Equip -- Kits	500				4	0.0															504
FY2004 Equip -- Kits	357		500		90	0.6															947 0.6
FY2005 Equip -- Kits	0		150		86	0.6															330 1.2
FY2006 Equip -- Kits	0						94	0.6													289 2.0
FY2007 Equip -- Kits	0						195	1.3	94	0.7											213 1.1
FY2008 Equip -- Kits	0								158	1.1	55										154 1.5
FY2009 Equip -- Kits	0										154	1.5									80 0.6
TC Equip- Kits	0												80	0.6							
TC Equip Blk 3 kits	0																				
Total Installment	857	0.0	650	0.0	180	1.2	289	1.9	252	1.8	209	1.5	80	0.6		0.0		0.0	2517	7.0	
Total Procurement Cost		254.8		41.1		40.7		58.9		53.8		79.9		43.1		44.3		122.8		739.4	

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Support for Bradley Fleet Modernization [MOD 5] 2-04-05-0006

MODELS OF SYSTEM AFFECTED: Bradley Family of Vehicles Fleet

DESCRIPTION/JUSTIFICATION:

Funds will be used to modernize with remanufactured A3 based vehicles. At a minimum these remanufactured vehicles will include 2nd Gen FLIR, situational awareness, and far target locator with a digital architecture that will accommodate future enabling technologies.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 N/A FY 2007 N/A FY 2008 N/A
 Delivery Date: FY 2006 N/A FY 2007 N/A FY 2008 N/A

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE (Cont): Support for Bradley Fleet Modernization [MOD 5] 2-04-05-0006

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Fleet Modernization									10.5		29.0									39.5
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		0.0		0.0		10.5		29.0		0.0		0.0		0.0		39.5

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Blue Force Tracking [MOD 6] 2-04-05-0004

MODELS OF SYSTEM AFFECTED: Bradley Family of Vehicles Fleet

DESCRIPTION/JUSTIFICATION:

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

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

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Requirements Document Complete Nov 02
First Unit Equipped (FUE) Mar 03

Installation Schedule:

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	408	33	33	34	34	33	34			56	56	57	57	57	58							
Outputs	408		33	33	34	34	33	34			56	56	57	57	57	58						

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						950
Outputs																						950

METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2006	FY 2007	FY 2008	
Delivery Date:	FY 2006	FY 2007	FY 2008	

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE (Cont): Blue Force Tracking [MOD 6] 2-04-05-0004

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity	408	8.6	134	6.0	67	3.1	226	13.0	115	6.5									950	37.2	
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2004 & Prior Equip -- Kits	408	3.5																	408	3.5	
FY 2005 -- Kits			134	3.0															134	3.0	
FY 2006 Equip -- Kits					67	1.5													67	1.5	
FY 2007 Equip -- Kits							226	5.3											226	5.3	
FY 2008 Equip -- Kits									115	2.7									115	2.7	
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
FY 2011 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	408	3.5	134	3.0	67	1.5	226	5.3	115	2.7		0.0		0.0		0.0		0.0	950	16.0	
Total Procurement Cost		12.1		9.0		4.6		18.3		9.2		0.0		0.0		0.0		0.0		53.2	

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	1475.1	16.9	34.3	18.3	14.8	29.1	33.9	42.9	26.5	18.3	43.8	1753.8
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)	1475.1	16.9	34.3	18.3	14.8	29.1	33.9	42.9	26.5	18.3	43.8	1753.8
Initial Spares	9.4											9.4
Total Proc Cost	1484.5	16.9	34.3	18.3	14.8	29.1	33.9	42.9	26.5	18.3	43.8	1763.3
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 funding profile completes production and fielding of the M109A6 Paladin Howitzer and funds selected Paladin System Improvements.

Justification:

FY 2006/2007 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 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Howitzer Improvement Program											
1-81-05-1002	Unclassified	1522.7	18.4	14.8	29.2	34.0	43.0	26.5	18.3	0.0	1706.9
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
Totals		1526.2	18.4	14.8	29.2	34.0	43.0	26.5	18.3	0.0	1710.4

INDIVIDUAL MODIFICATION

Date: February 2005

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-FY11 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.

Installation Schedule:

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0																					
Outputs	975																					

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						0
Outputs																						975

METHOD OF IMPLEMENTATION: Production / Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 17 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	and Prior		Qty	\$	Qty	\$	Qty	\$												
	Qty	\$																		
RDT&E	0																			
Procurement	0																			
Kit Quantity	975																		975	
Equipment	0	834.2		8.3		8.5		15.2		24.4		30.1		21.8		14.0				956.5
Equipment, Nonrecurring	0	245.6																		245.6
Engineering Change Orders	0	116.6																		116.6
Matrix Personnel Support	0	104.2		2.3		1.3		1.0		1.0		1.0		0.8		0.8				112.4
Data/Other	0	19.5		0.7		0.7		0.7		0.7		0.7		0.7		0.7				24.4
Training Equipment	0	14.1																		14.1
Vehicular Intercom System	0	11.3																		11.3
Project Mgmt Admin	0	31.0		2.5		2.5		2.5		2.2		2.0		2.0		1.8				46.5
Fielding	0	41.6		1.8		0.8		3.2		2.1		3.6		1.2		1.0				55.3
System Improvements	0	22.1		2.8		1.0		6.6		3.6		5.6								41.7
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	975	82.5																		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				82.5
Total Procurement Cost		1522.7		18.4		14.8		29.2		34.0		43.0		26.5		18.3			0.0	1706.9

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	110.4	3.1	10.9	7.3	6.4							138.2
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)	110.4	3.1	10.9	7.3	6.4							138.2
Initial Spares												
Total Proc Cost	110.4	3.1	10.9	7.3	6.4							138.2
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 Engine Compartment Halon Replacement modifications.

Justification:

FY2006 procures the following FAASV system improvements necessary for the vehicle to operate and interface with other systems on the battlefield: Auxiliary Power Unit (APU); Modular Artillery Charge System (MACS) Stowage and Handling; and replace Halon, which is the fire suppression agent for the FAASV Engine Compartment with an environmentally safe alternative.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
FAASV Materiel Change											
1-93-05-4457	Unclassified	120.4	6.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	132.4
FAASV Engine Compartment Halon Replacement											
1-94-05-4477	Unclassified	4.2	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	5.9
Totals		124.6	7.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	138.3

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M992A2

DESCRIPTION/JUSTIFICATION:

The FAASV material change encompasses improvements to include an Up-powered Auxiliary Power Unit (APU) to support Paladin silent watch and Modular Artillery Charge System (MACS) stowage improvements. The total fleet quantity of M992A2s is 925 due to 2 combat losses in OIF. The Inputs/Outputs of 52 reflect prior year quantities of M992A2s that had material changes applied as part of Recap in FY04. FY03-FY06 funding is for system improvements necessary for the vehicle to operate and interface with other systems with quantities reflected on the current schedule.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	789																			789	
Installation Kits	0	43.6																			43.6
Engineering	0	11.6		0.3		0.2															12.1
Government Support	0	5.2		0.6		0.4															6.2
Testing	0	0.5																			0.5
Fielding Support	0	6.2																			6.2
Depot Maint Pre Modification	0	0.8																			0.8
System Improvements:	0	13.2																			13.2
APU Kits	250	5.0	298	5.5	281	5.0														829	15.5
MACS Kits	328	5.3																		328	5.3
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	789	25.8																		789	25.8
FY2003 Equip -- Kits	0																				
FY2004 Equip -- Kits		3.2																			3.2
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	789	29.0		0.0		0.0	789	29.0													
Total Procurement Cost		120.4		6.4		5.6		0.0		0.0			132.4								

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: FAASV M992A2

DESCRIPTION/JUSTIFICATION:

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

The FY03-05 funds have been appropriated to identify and swap out an alternative agent for the Engine Compartment Automatic Fire Extinguishing System (AFES). The total fleet quantity of M992A2s is 925 due to 2 combat losses in OIF. The Inputs/Outputs of 52 reflect prior year quantities of M992A2s that had material changes applied as part of Recap in FY04. FY03-FY05 funding is for quantities reflected on the current schedule.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	927																			927	
Installation Kits A	0	1.0																			1.0
Engineering Support	0	0.1																			0.1
Test	0	0.3																			0.3
Installation Kits B	443	1.4	320	0.9	162	0.8														925	3.1
Crew Compartment Non-Recurring	0																				
--	0																				
--	0																				
--	0																				
--	0																				
--	0																				
Installation of Hardware	0																				
FY2002 & Prior Equip -- Kits	927	1.4																			1.4
FY2003 Equip -- Kits	0																				
FY2004 Equip -- Kits																					
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		4.2		0.9		0.8		0.0		0.0		0.0		0.0		0.0		0.0			5.9

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	803.4	62.8	111.1	116.5	443.5	368.9	344.7	302.0	41.9	42.8	63.0	2700.4
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)	803.4	62.8	111.1	116.5	443.5	368.9	344.7	302.0	41.9	42.8	63.0	2700.4
Initial Spares												
Total Proc Cost	803.4	62.8	111.1	116.5	443.5	368.9	344.7	302.0	41.9	42.8	63.0	2700.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M1 Abrams Tank (MOD) program applies user-approved modifications to the fielded Abrams family of vehicles. Situational Awareness incorporates System Enhancement Program (SEP) technologies into the M1A1 fleet, from lessons learned during Operation Iraqi Freedom (OIF). Notable survivability improvements include Frontal Armor and Turret Side Armor upgrades as well as the Auxiliary Power Unit (APU). The Power Train Improvement & Integration Optimization Program (i.e., Total Integration Engine Revitalization (TIGER)) is the centerpiece of efforts to provide more reliability, durability and a single standard for the vehicle's power train. Key safety improvements include the Driver's Hatch Interlock, the Eyesafe Laser Range Finder (ELRF), and changes to prevent fires originating in the Nuclear, Biological and Chemical (NBC) filter system.

Justification:

FY06/FY07 procures numerous components and required safety modifications in support of the Abrams family of vehicles. These modifications correct or alleviate operational deficiencies identified during testing, training exercises, or in combat.

FY05 funding does not include \$2.1 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Prior Year Closed Mod's											
0-00-00-0000		528.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	528.4
Abrams Field Upgrades											
1-97-05-4534	Operational	43.1	1.1	1.1	6.8	5.2	5.5	1.2	1.2	63.0	128.2
Abrams Integrated Management (AIM)											
2-04-05-0009	Operational	219.1	26.0	23.2	12.7	1.0	0.0	0.0	0.0	0.0	282.0
Driver's Hatch Interlock (DHI)											
1-97-05-4520	Safety	30.9	5.2	5.2	5.4	2.8	0.5	0.0	0.0	0.0	50.0
NBC Fire Prevention											
1-97-05-4524	Safety	4.6	6.0	5.7	7.5	7.2	2.0	0.0	0.0	0.0	33.0
Frontal Armor											
0000000000	Operational	79.6	22.5	55.0	41.8	57.4	49.5	0.0	0.0	0.0	305.8
Improved Turret Side Armor											
1-99-05-4555	Operational	9.2	3.4	8.8	11.5	11.6	4.8	0.0	0.0	0.0	49.3
Eye-Safe Laser Rangefinder (ESLRF)											
1-99-05-4563	Safety	22.9	7.8	10.7	14.1	8.0	1.4	0.0	0.0	0.0	64.9
Engineering Support											
0-00-00-0000	Operational	28.1	2.0	20.5	23.9	25.2	24.6	23.2	23.7	0.0	171.2
M829E3 Ballistic Solution											
1-01-05-0011	Operational	0.0	2.0	2.4	2.7	2.7	0.6	0.0	0.0	0.0	10.4

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Power Pack Improvement & Integration Optimization											
2-04-05-0008	Operational	0.0	0.0	252.7	168.9	185.9	195.3	0.0	0.0	0.0	802.8
Other Safety or Environmental Mods											
2-04-05-0010	Safety	1.0	3.1	3.4	3.6	3.3	0.6	0.0	0.0	0.0	15.0
Other Operational Enhancements											
2-04-05-0011	Operational	1.9	9.0	11.9	21.1	20.3	17.1	17.5	17.9	0.0	116.7
Situational Awareness (SA)											
2-04-05-0012	Operational	0.0	20.0	37.0	18.8	0.0	0.0	0.0	0.0	0.0	75.8
Blue Force Tracking											
2-04-05-0007	Operational	8.3	8.1	5.6	30.4	14.0	0.0	0.0	0.0	0.0	66.4
Totals		977.1	116.2	443.2	369.2	344.6	301.9	41.9	42.8	63.0	2699.9

INDIVIDUAL MODIFICATION

Date: February 2005

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

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

METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2006	FY 2007	FY 2008	
Delivery Date:	FY 2006	FY 2007	FY 2008	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	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	528.4																			528.4
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2004 & Prior Equip -- Kits	0																				
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
FY2011 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.0
Total Procurement Cost		528.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	528.4

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M1A1 and M1A2 series

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	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																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	0	43.1																			43.1
FY2004 Equip -- Kits	0			1.1																	1.1
FY2005 Equip -- Kits	0				1.1																1.1
FY2006 Equip -- Kits	0					1.1															1.1
FY2007 Equip -- Kits	0						6.8														6.8
FY2008 Equip -- Kits	0							5.2													5.2
FY2009 Equip -- Kits	0								5.5												5.5
FY2010 Equip -- Kits	0										1.2										1.2
FY2011 Equip -- Kits	0												1.2								1.2
TC Equip- Kits	0																63.0				63.0
Total Installment	0	43.1		1.1		1.1		6.8		5.2		5.5		1.2		1.2		63.0			128.2
Total Procurement Cost		43.1		1.1		1.1		6.8		5.2		5.5		1.2		1.2		63.0			128.2

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M1A1

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Various - Milestones differ for individual Modifications noted above.

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																					
Inputs	785	28	29	29	29	25	25	25	25	25	25										
Outputs	665	30	30	30	30	28	29	29	29	25	25	25	25	25	25						

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1050
Outputs																		1050

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity																					
Installation Kits	785	174.8	115	23.7	100	21.0	50	10.7											1050	230.2	
Installation Kits, Nonrecurring Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2003 & Prior Equip -- Kits	665	44.3																	665	44.3	
FY 2004 Equip -- Kits			120	2.3															120	2.3	
FY 2005 Equip -- Kits					115	2.2													115	2.2	
FY 2006 Equip -- Kits							100	2.0											100	2.0	
FY 2007 Equip -- Kits									50	1.0									50	1.0	
FY 2008 Equip -- Kits																					
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
TC Equip -- Kits																					
Total Installment	665	44.3	120	2.3	115	2.2	100	2.0	50	1.0		0.0		0.0		0.0		0.0	1050	51.8	
Total Procurement Cost		219.1		26.0		23.2		12.7		1.0		0.0		0.0		0.0		0.0		282.0	

INDIVIDUAL MODIFICATION

Date: February 2005

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 2005				FY 2006				FY 2007				FY 2008				FY 2009				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	3938	123	123	124	125	123	123	124	125	123	123	124	125	123	34						
Outputs	3443	123	123	124	125	123	123	124	125	123	123	124	125	123	123	124	125	123	34		

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					5580
Outputs																					5580

METHOD OF IMPLEMENTATION: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2006 Mar 05 FY 2007 Mar 06 FY 2008 Mar 07
 Delivery Date: FY 2006 Sep 05 FY 2007 Sep 06 FY 2008 Sep 07

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	3938	24.2	495	3.8	495	3.8	495	3.9	157	1.3									5580	37.0	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	3443	6.7																	3443	6.7	
FY2004 Equip -- Kits	0		495	1.4															495	1.4	
FY2005 Equip -- Kits	0				495	1.4													495	1.4	
FY2006 Equip -- Kits	0						495	1.5											495	1.5	
FY2007 Equip -- Kits	0								495	1.5									495	1.5	
FY2008 Equip -- Kits	0										157	0.5							157	0.5	
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	3443	6.7	495	1.4	495	1.4	495	1.5	495	1.5	157	0.5		0.0		0.0		0.0	5580	13.0	
Total Procurement Cost		30.9		5.2		5.2		5.4		2.8		0.5		0.0		0.0		0.0		50.0	

INDIVIDUAL MODIFICATION

Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

The Nuclear, Biological, and Chemical (NBC) Fire Prevention is a series of modifications intended to prevent fires from originating in the NBC filter system. Included are an Automatic electrical shutdown, NBC cover spacers and Sponson drains. Ongoing investigation of tank fires may suggest additional changes. Quantities are not listed as they will vary depending on individual tank configuration. Contract date will likely also vary by item and cannot be predicted.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Items described will have varying milestones.

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION:

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0																			
Installation Kits	0	4.3		3.1		4.4		5.7		4.9										22.4
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2003 & Prior Equip -- Kits	0	0.3																		0.3
FY2004 Equip -- Kits	0			2.9																2.9
FY2005 Equip -- Kits	0					1.3														1.3
FY2006 Equip -- Kits	0						1.8													1.8
FY2007 Equip -- Kits	0							2.3												2.3
FY2008 Equip -- Kits	0								2.3											2.3
FY2009 Equip -- Kits	0									2.0										2.0
FY2010 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.3		2.9		1.3		1.8		2.3		2.0		0.0		0.0		0.0		10.6
Total Procurement Cost		4.6		6.0		5.7		7.5		7.2		2.0		0.0		0.0		0.0		33.0

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Frontal Armor [MOD 6] 0000000000

MODELS OF SYSTEM AFFECTED: Abrams FOV

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: OGA ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 10 Months

Contract Dates: FY 2006 Jan 05 FY 2007 Jan 06 FY 2008 Jan 07

Delivery Date: FY 2006 Oct 05 FY 2007 Oct 06 FY 2008 Oct 07

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	and Prior		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	46	79.6	104	22.5	135	55.0	75	41.8	75	57.4		49.5							435	305.8
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2003 & Prior Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		79.6		22.5		55.0		41.8		57.4		49.5		0.0		0.0		0.0		305.8

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Abrams FOV

DESCRIPTION/JUSTIFICATION:

This modification provides better protection against rocket propelled grenade attacks on the turret sides of the crew compartment. The new design will significantly enhance survivability. Additional installations (240 ea) were procured in GA0730, System Enhancement PGM: SEP M1A2.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	84	10	11	11	11	63	63	63	63	63	64	64	64	52	52	53	53			
Outputs	41	10	11	11	11	22	22	22	22	51	52	52	52	63	64	64	64	52	52	53

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

METHOD OF IMPLEMENTATION: Contr Team ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2006 Jan 05 FY 2007 Nov 05 FY 2008 Nov 06
 Delivery Date: FY 2006 Nov 05 FY 2007 Nov 06 FY 2008 Nov 07

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	84	8.7	43	2.5	252	6.9	255	6.9	210	5.8									844	30.8	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	41	0.5																			0.5
FY2004 Equip -- Kits	0		43	0.9																	43
FY2005 Equip -- Kits	0				88	1.9															88
FY2006 Equip -- Kits	0						207	4.6													207
FY2007 Equip -- Kits	0								255	5.8											255
FY2008 Equip -- Kits	0										210	4.8									210
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	41	0.5	43	0.9	88	1.9	207	4.6	255	5.8	210	4.8		0.0		0.0			0.0	803	18.5
Total Procurement Cost		9.2		3.4		8.8		11.5		11.6		4.8		0.0		0.0			0.0		49.3

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Abrams FOV

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Totals																						
Inputs	1537	123	124	124	124	123	124	124	124	123	124	124	124	124	45	45	45	45				
Outputs	1402	123	124	124	124	63	64	64	64	93	94	94	94	94	123	124	124	124	45	45	45	45

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

METHOD OF IMPLEMENTATION:	Contractor Team	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2006 Nov 04	FY 2007 Nov 05		FY 2008 Nov 06	
Delivery Date:	FY 2006 Aug 05	FY 2007 Aug 06		FY 2008 Aug 07	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	RDT&E	0																				
Procurement	0																					
Kit Quantity	1537	22.0	495	6.4	495	9.6	495	11.3	180	4.2										3202	53.5	
Installation Kits	0																					
Installation Kits, Nonrecurring	0																					
Equipment	0																					
Equipment, Nonrecurring	0																					
Engineering Change Orders	0																					
Data	0																					
Training Equipment	0																					
Support Equipment	0																					
Other	0																					
Interim Contractor Support	0																					
Installation of Hardware	0																					
FY2003 & Prior Equip -- Kits	1402	0.9																			1402	0.9
FY2004 Equip -- Kits	0		495	1.4																	495	1.4
FY2005 Equip -- Kits	0				255	1.1															255	1.1
FY2006 Equip -- Kits	0						375	2.8													375	2.8
FY2007 Equip -- Kits	0								495	3.8											495	3.8
FY2008 Equip -- Kits	0										180	1.4									180	1.4
FY2009 Equip -- Kits	0																					
FY2010 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	1402	0.9	495	1.4	255	1.1	375	2.8	495	3.8	180	1.4		0.0		0.0		0.0		0.0	3202	11.4
Total Procurement Cost		22.9		7.8		10.7		14.1		8.0		1.4		0.0		0.0		0.0		0.0		64.9

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Whole Fleet

DESCRIPTION/JUSTIFICATION:

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

Modification support is synergistically intertwined with related efforts funded in GA0750 [M1A2 SEP Production] and GA0730 [M1A2 SEP Retrofit].

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION:		ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2006		FY 2007		FY 2008
Delivery Date:	FY 2006		FY 2007		FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	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	28.1		2.0		20.5		23.9		25.2		24.6		23.2		23.7				171.2	
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	0																				
FY2004 Equip -- Kits	0																				
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.0	
Total Procurement Cost		28.1		2.0		20.5		23.9		25.2		24.6		23.2		23.7				0.0	171.2

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: M829E3 Ballistic Solution [MOD 10] 1-01-05-0011

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	0	409	409	410	307	307	307	308	307	307	307	308	308	307	307	307				
Outputs	0					409	409	410	307	307	307	308	307	307	307	308	308	307	307	307

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE (Cont): M829E3 Ballistic Solution [MOD 10] 1-01-05-0011

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	0		1228		1229		1229		1229											4915	
Installation Kits	0			2.0		2.0		2.1		2.1											8.2
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	0																				
FY2004 Equip -- Kits	0																				
FY2005 Equip -- Kits	0				1228	0.4														1228	0.4
FY2006 Equip -- Kits	0						1229	0.6												1229	0.6
FY2007 Equip -- Kits	0								1229	0.6										1229	0.6
FY2008 Equip -- Kits	0										1229	0.6								1229	0.6
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.0		0.0	1228	0.4	1229	0.6	1229	0.6	1229	0.6		0.0		0.0		0.0		4915	2.2
Total Procurement Cost		0.0		2.0		2.4		2.7		2.7		0.6		0.0		0.0		0.0			10.4

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M1A2 SEP, M1A1

DESCRIPTION/JUSTIFICATION:

This modification is intended to reduce the Operating and Support (O&S) cost of the Abrams Tank power train. It will equip the active component Abrams fleet with more reliability, durability and provide a single standard for vehicle's power train. This modification includes the Total Integration Engine Revitalization (TIGER) program, Transmission Enterprise and Auxiliary Power Unit (APU).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....Planned 4Q04
 Critical Design Review.....Planned 4Q05

Installation Schedule:

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

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																					668	668
Outputs																					668	668

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E	0																		
Procurement	0																			
Kit Quantity	0																			
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0				399	252.7	320	168.9	346	185.9	357	195.3							1422	802.8
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																			
FY2003 & Prior Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		252.7		168.9		185.9		195.3		0.0		0.0		0.0		802.8

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M1A1, M1A2

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Items described above will have varying milestones.

Installation Schedule:

Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	500	250	250	250	250	250	250	250	250	250	250	250	250	250	200	200				
Outputs	0		250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	200	200

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		4400
Outputs																		4400

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	500		1000		1000		1000		900										4400		
Installation Kits	0	1.0		2.8		2.8		2.9		2.6											12.1
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	0																				
FY2004 Equip -- Kits	0		500	0.3																500	0.3
FY2005 Equip -- Kits	0				1000	0.6														1000	0.6
FY2006 Equip -- Kits	0						1000	0.7												1000	0.7
FY2007 Equip -- Kits	0								1000	0.7										1000	0.7
FY2008 Equip -- Kits	0										900	0.6								900	0.6
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.0	500	0.3	1000	0.6	1000	0.7	1000	0.7	900	0.6		0.0		0.0		0.0	4400	2.9	
Total Procurement Cost		1.0		3.1		3.4		3.6		3.3		0.6		0.0		0.0		0.0		15.0	

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M1A1, M1A2

DESCRIPTION/JUSTIFICATION:

This modification includes an Auxiliary Power Unit (APU) that will power the tank's electrical systems without operating the main engine, an added stowage bracket and cover to accommodate two M4 Carbines, a new odometer that doesn't revert to zero miles when new vehicle software is installed, and a profile verification program (PVP).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Items described above will have varying milestones.

Installation Schedule:

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

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity																					
Installation Kits	0	1.9		8.8		11.4		20.7		19.9		16.7		17.5		17.9					114.8
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																				
FY2003 & Prior Equip -- Kits																					
FY2004 Equip -- Kits	0			0.2																	0.2
FY2005 Equip -- Kits	0					0.5															0.5
FY2006 Equip -- Kits	0							0.4													0.4
FY2007 Equip -- Kits	0								0.4												0.4
FY2008 Equip -- Kits	0									0.4											0.4
FY2009 Equip -- Kits	0										0.4										0.4
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.0		0.2		0.5		0.4		0.4		0.4		0.0		0.0					1.9
Total Procurement Cost		1.9		9.0		11.9		21.1		20.3		17.1		17.5		17.9					116.7

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M1A1

DESCRIPTION/JUSTIFICATION:

From lessons learned during Operation Iraqi Freedom (OIF), some of the M1A2 Systems Enhancement Program (SEP) technologies are being inserted into the M1A1 tank fleet. Integration of the Second Generation Forward Looking InfraRed (FLIR) into the Gunner's Primary Sight provides a leap-ahead target acquisition capability; Far Target Locate (FTL) will improve lethality by calculating the grid coordinates of a lased target; and the Improved Driver's Sight capability will improve mobility during periods of degraded visibility and darkness.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Various - Milestones differ for individual Modifications noted above.

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	12 Months
Contract Dates:	FY 2006 Nov 05	FY 2007 Nov 06		FY 2008 Nov 07	
Delivery Date:	FY 2006 Nov 06	FY 2007 Nov 07		FY 2008 Nov 08	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits			55	20.0	100	37.0	50	18.8											205	75.8
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2003 & Prior Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		20.0		37.0		18.8		0.0		0.0		0.0		0.0		0.0		75.8

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Abrams FOV

DESCRIPTION/JUSTIFICATION:

Blue Force Tracking (BFT) is a digital Command and Control system that gives Army commanders across the battlefield current information about their location relative to friendly forces. Earth orbiting satellites transmit signals to the Precision Lightweight Global Positioning System Receiver (PLGR). The PLGR data is then fed to the Force XXI Battle Command - Brigade and Below (FBCB2) computer system which plots the precise location of each BFT equipped combat platform on a resident digital map.

The enhanced situational awareness provided by BFT will reduce friendly fire incidents and increase combat effectiveness.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Engineering development.....Planned: 2Q03 Accomplished: 2Q03
 TM Completion.....Planned: 2Q05
 MWO Completion.....Planned: 2Q05

Installation Schedule:

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

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																					117	117
Outputs																					117	117

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	0																				
Installation Kits	233	8.3	100	8.1	68	5.6	362	30.4	164	14.0									927	66.4	
Installation Kits, Nonrecurring	0																				
Equipment	0																				
Equipment, Nonrecurring	0																				
Engineering Change Orders	0																				
Data	0																				
Training Equipment	0																				
Support Equipment	0																				
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2003 & Prior Equip -- Kits	0																				
FY2004 Equip -- Kits	0																				
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
FY2010 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
Total Procurement Cost		8.3		8.1		5.6		30.4		14.0		0.0		0.0		0.0		0.0		0.0	

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	41	28	37	64			30	54	2			256
Gross Cost	153.5	176.4	180.1	291.0		40.9	169.4	301.6	11.3			1324.3
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)	153.5	176.4	180.1	291.0		40.9	169.4	301.6	11.3			1324.3
Initial Spares												
Total Proc Cost	153.5	176.4	180.1	291.0		40.9	169.4	301.6	11.3			1324.3
Flyaway U/C												
Wpn Sys Proc U/C		6.3	4.9	4.5			5.6	5.6	5.6			

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 Common Operating Environment (COE) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new Block I 2nd Generation Forward-Looking Infra-Red (FLIR) technology.

Justification:

FY2007 procures the production start up for M1A2 SEP Retrofits. 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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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		99397	37	2686	190972	64	2984				40944		
FLIR	A		16952	37	458	24698	64	386						
GFE			23551	37	637	36642	64	573						
M1A2 Depot-Maintenance Pre-MOD			17929	37	485	17653	64	276						
STS, TPF, ST&TS, Gov't Spt			22221			21059								
Total			180050			291024						40944		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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 2004	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Feb 04	Mar 06	37	2686			
FY 2005	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jan 05	Nov 06	64	2984			
FLIR										
FY 2004	Various	SS/FFP	CECOM	Nov 03	Jun-04	37	458			
FY 2005	Various	SS/FFP	CECOM	Feb 05	Aug-05	64	386			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	784	103										887
Gross Cost	4784.1	593.2	1.9									5379.2
Less PY Adv Proc	1855.3	209.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2064.5
Plus CY Adv Proc	2064.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2064.5
Net Proc (P-1)	4993.2	384.0	1.9									5379.2
Initial Spares	89.5	9.5	5.4	11.4	3.3							119.1
Total Proc Cost	5082.8	393.5	7.3	11.4	3.3							5498.2
Flyaway U/C	0.0								0.0	0.0		
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 Common Operating Environment (COE) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology.

Justification:

FY06 Abrams Upgrade Program continues fielding/spares support to previously procured vehicles.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty											Continuing	Continuing
Gross Cost	32.2	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2		34.9
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)	32.2	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2		34.9
Initial Spares												
Total Proc Cost	32.2	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2		34.9
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.

Justification:

FY2006/2007 procures equipment essential for organizational maintenance personnel to maintain full tracked vehicles in an acceptable state of readiness. Funding of this program will establish and maintain the operational capability of the Bradley Fighting Vehicle, M1 Tank, and Howitzers.

AAO: Various

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: ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)			Weapon System Type:			Date: February 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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. Full Tracked Vehicle Tool Set			388	20	19	405	20	20	407	20	20	415	20	21
Total			388			405			407			415		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Full Tracked Vehicle Tool Set										
FY 2004	Rock Island Arsenal Rock Island, IL	REQN/PWD	TACOM, Rock Island	DEC 03	DEC 04	20	19	Y	N	
FY 2005	Rock Island Arsenal Rock Island, IL	REQN/PWD	TACOM, Rock Island	DEC 04	DEC 05	20	20	Y	N	
FY 2006	Rock Island Arsenal Rock Island, IL	REQN/PWD	TACOM, Rock Island	DEC 05	DEC 06	20	20	Y	N	
FY 2007	Rock Island Arsenal Rock Island, IL	REQN/PWD	TACOM, Rock Island	DEC 06	DEC 07	20	21	Y	N	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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

P-1 Item Nomenclature
PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	336.9	9.6	10.1	10.2	10.3	11.5	11.7	12.0	13.1	10.3		435.7
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)	336.9	9.6	10.1	10.2	10.3	11.5	11.7	12.0	13.1	10.3		435.7
Initial Spares												
Total Proc Cost	336.9	9.6	10.1	10.2	10.3	11.5	11.7	12.0	13.1	10.3		435.7
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 the redistribution of equipment no longer required for the production of Army systems as a result of rightsizing efforts; equipment reduction as a result of changes in program requirements. Funding is required for the preservation, packing, crating, handling, and transportation (PCH&T) of equipment excess to production, where such actions do not constitute substantial or complete shutdown or excessing of U.S. Army Tank-automotive and Armaments Command production equipment. This program also funds projects to prevent unnecessary deterioration, perform maintenance, cover storage expenses of idle items of Government-owned equipment, and unplanned repairs to active equipment as situations arise. The execution of this program will not have an impact on the quality of the environment. This effort supports the Reset Program and Spiral-Out Framework.

Justification:

FY06 supports Production Support Equipment, Replacement of Government Owned Industrial Plant Equipment (IPE) and government owned real property at Joint System Manufacturing Center at Lima (JSMCL)(formerly Lima Army Tank Plant (LATP)) and Government owned IPE at contractor-owned manufacturing facilities at Muskegon, MI, Scranton, PA, and other locations. This request also supports items such as Emergency/Unplanned Repairs to prevent loss of resources, production interruptions, and threats to security, worker safety, and the environment. Representative projects include milling capabilities, upgrading of a grinding machine, and rehab of machining centers. At JSMCL, tasks such as rehab of weld machines, 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. Funding for Layaway of Industrial Facilities affords a reduction in costs at various locations by 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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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			9737			9898			9872			10811		
LIF			375			380			386			424		
Total			10112			10278			10258			11235		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	298.0	9.3	9.7	9.9	9.9	11.1	11.3	11.6	12.6	9.8		393.0
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)	298.0	9.3	9.7	9.9	9.9	11.1	11.3	11.6	12.6	9.8		393.0
Initial Spares												
Total Proc Cost	298.0	9.3	9.7	9.9	9.9	11.1	11.3	11.6	12.6	9.8		393.0
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 program also supports the Reset Program and Spiral-Out Framework.

Justification:

FY06 supports Production Support Equipment, Replacement of Government Owned Industrial Plant Equipment (IPE) and Government owned real property at Joint System Manufacturing Center at Lima (JSMCL) (formerly LATP - Lima Army Tank Plant) and Government Owned IPE at contractor-owned manufacturing facilities at Muskegon MI, Scranton PA, and other locations. This request also supports items such as Emergency/Unplanned Repairs to prevent loss of resources, production interruptions, and threats to security, worker safety, and the environment. Representative projects include milling capabilities, upgrading of a grinding machine, and rehab of machining centers. At JSMCL, tasks such as rehab of weld machines, 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 2005

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:

0604802A - Wpns & Munitions - Eng Dev

Code:

B

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				100	10400	10200	40000	45600	48300	49800		204400
Gross Cost				0.5	32.5	32.7	122.6	138.2	143.9	146.0	359.4	975.8
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)				0.5	32.5	32.7	122.6	138.2	143.9	146.0	359.4	975.8
Initial Spares												
Total Proc Cost				0.5	32.5	32.7	122.6	138.2	143.9	146.0	359.4	975.8
Flyaway U/C												
Wpn Sys Proc U/C				0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Description:

Roll up for the Integrated Air Burst Weapon System Family.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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: 0604802A - Wpns & Munitions - Eng Dev	Code: B	Other Related Program Elements:
-----------------------------------------------------------------------------	------------	---------------------------------

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				100	10400	10200	40000	45600	48300	49800		204400
Gross Cost				0.5	32.5	32.7	122.6	138.2	143.9	146.0	359.4	975.8
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)				0.5	32.5	32.7	122.6	138.2	143.9	146.0	359.4	975.8
Initial Spares												
Total Proc Cost				0.5	32.5	32.7	122.6	138.2	143.9	146.0	359.4	975.8
Flyaway U/C												
Wpn Sys Proc U/C				0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Description:

The XM8 Modular Assault Weapon is the first increment of the Objective Individual Combat Weapon (OICW) Program. The XM8 represents the state-of-the-art technology for 5.56mm assault weapons. The XM8 is a multi-configurable weapon that has four variants: a baseline assault weapon; a designated marksman; a special compact; and a light machinegun. To meet changing mission requirements, these variants are easily and quickly reconfigured at the unit level with the use of interchangeable assembly groups such as barrel, handguard, buttstock modules and sighting systems.

Justification:

FY2006/FY2007 procures special compact, carbine and designated marksman quantities for production qualification testing (PQT) and full rate production tooling. The XM8 Assault Weapon System 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 have increased reliability and decreased logistic costs.

Comments:

The Army is currently evaluating candidates for production.

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: XM-8 Carbine (5.56mm) (G16102)			Weapon System Type:			Date: February 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$	\$000	Units	\$	\$000	Units	\$	\$000	Units	\$
Hardware													
Weapon System	B				250	100	3	25120	10400	2	22983	10200	2
Support													
Engineering Support					163			1349			1426		
Integrated Logistics					50			892			913		
Training					25			651			707		
Fielding / Transportation					10			472			502		
Non-Recurring Engineering													
Tooling & Fixtures								4000			6150		
Total					498			32484			32681		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: XM-8 Carbine (5.56mm) (G16102)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Weapon System										
FY 2005	TBS	SS/FFP	ARDEC-Picatinny Arsenal, NJ	Jul 05	Oct 05	100	2.5	No	Jul 05	
FY 2006	TBS	Option	ARDEC-Picatinny Arsenal, NJ	Jan 06	Apr 06	10400	2.4			
FY 2007	TBS	Option	ARDEC-Picatinny Arsenal, NJ	Dec 06	Mar 07	10200	2.3			
FY 2008	TBS	Option	ARDEC-Picatinny Arsenal, NJ	Nov 07	Feb 08	40000	0.8			
FY 2009	TBS	Option	ARDEC-Picatinny Arsenal, NJ	Jan 09	Apr 09	45600	0.7			
FY 2010	TBS	C/FFP	ARDEC-Picatinny Arsenal, NJ	Jan 10	Apr 10	48300	0.7			
FY 2011	TBS	Option	ARDEC-Picatinny Arsenal, NJ	Dec 10	Mar 11	49800	0.7			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	61246	1780	1442	2025	1197	694	775					69159
Gross Cost	286.1	17.0	17.1	25.2	14.1	11.5	14.1					385.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	286.1	17.0	17.1	25.2	14.1	11.5	14.1					385.2
Initial Spares												
Total Proc Cost	286.1	17.0	17.1	25.2	14.1	11.5	14.1					385.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program procures M240 class machine guns in different configurations for various applications. The M240B Machine Gun is a ground version of the original 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 M240B also includes: a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing and elevating mechanism and a flex mount pintle. The M240H 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 M240H will use the same receiver and barrel as the M240B but will have a spade grip trigger assembly. It will also require a unique mounting interface and pintle to properly interface with the helicopter platform. Also included with the system will be an egress kit to allow the weapon to be converted for a ground defensive role in the event the helicopter is downed. The M240E6 will replace the M240B in Special Forces/Rangers, Light Infantry and Airborne units. The M240E6 will significantly reduce the weight of the current M240B while maintaining the same level of reliability. This weight reduction will be accomplished through the use of lightweight materials and innovative manufacturing techniques.

Justification:

FY2006/2007 procures 572 M240B Infantry Machine guns, 789 M240H Helicopter Machine guns and 530 M240E6 Light Weight Machine guns. The M240B 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 M240H 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 Airborne Division, 101st Airborne Division, and the 10th Mountain Division. The M240E6 will significantly reduce the weight of the current M240B while maintaining the same level of reliability. The M240E6 will replace the M240 in Special Forces/Rangers, Light Infantry and Airborne units.

FY05 funding does not include \$20.6M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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)														
Hardware (Infantry Version - M240B)		A	2885	342	8				4755	572	8			
Hardware (Aviation Version - M240H)		A	11932	1100	11	22797	2025	11	7104	625	11	1834	164	11
Hardware (Light Weight Version - M240E6)		B										7033	530	13
2. Engineering Support			638			1322			1395			1400		
3. Integrated Logistics Support			406			200			200			200		
4. Engineering Change Proposals			200			156			83			233		
5. Total Package Fielding			300			275			260			300		
6. Engineering Studies			75			250			200			350		
7. New Equipment Training						75			75			75		
8. First Destination Transportation						50			50			94		
9. RFI - Barrel Bags			676			26			26			26		
Total			17112			25151			14148			11545		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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 - M240B)										
FY 2004	FN Mfg Inc., Columbia, SC	C/IDIQ	TACOM - Rock Island, IL	Dec 03	May 05	342	8			
FY 2006	TBS	C/FFP	TACOM - Rock Island, IL	Jan 06	Apr 07	572	8	Yes		
Hardware (Aviation Version - M240H)										
FY 2004	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM - Rock Island, IL	Sept 04	Apr 05	1100	11			
FY 2005	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM - Rock Island, IL	Mar 05	Mar 06	2025	11	Yes		
FY 2006	FN Mfg Inc., Columbia, SC	Option	TACOM - Rock Island, IL	Jan 06	Jan 07	625	11	Yes		
FY 2007	FN Mfg Inc., Columbia, SC	Option	TACOM - Rock Island, IL	Jan 07	Jul 07	164	11	Yes		
Hardware (Light Weight Version - M240E6)										
FY 2007	TBS	C/FFP	TACOM - Rock Island, IL	Jan 07	Apr 08	530	13	No	Jul 06	

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												L A T E R		
							Calendar Year 04												Calendar Year 05														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
Hardware (Infantry Version - M240B)																																	
	1	FY 03 & Pr	A	8418	4603	3815	125	125	125	125	125	125	125	125	125	181	250	250	279	178	300	250	250	250	250	152	100					0	
	1	FY 04	A	342	0	342																				95	150	97					0
	2	FY 06	A	572	0	572																										572	
	1	FY 03 & Pr	AF	3192	2040	1152	125	125	125	125	125	125	125	125	27																	0	
	1	FY 04	AR	421	0	421																								64	250	107	
	1	FY 03 & Pr	CG	330	300	30								30																		0	
	1	FY 04	CG	111	0	111																								111		0	
	1	FY 03 & Pr	FMS	132	0	132										20			21	91												0	
	1	FY 04	FMS	4	0	4																								4		0	
	1	FY 05	FMS	386	0	386																										386	
	1	FY 04	NA	233	0	233								3															159	71		0	
	2	FY 06	NA	350	0	350																										350	
	1	FY 03 & Pr	OTH	34	0	34													31							3						0	
	1	FY 04	OTH	223	0	223									31		28	50	50													64	
Hardware (Aviation Version - M240H)																																	
	1	FY 04	A	1100	0	1100													A							100	100	100	100	100	100	500	
	1	FY 05	A	2025	0	2025																			A							2025	
	1	FY 06	A	625	0	625																										625	

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct			
1	FN Mfg Inc., , Columbia, SC	1200.00	3000.00	4200.00	6	1	INITIAL	6	4	15	FN Manufacturing surged from 175 to 250/Mo to meet increased USAF and Navy Enduring Freedom and Noble Eagle requirements.
						2	REORDER	3	4	12	
2	TBS,	1200.00	3000.00	4200.00	6	2	INITIAL	6	4	15	
							REORDER	3	3	12	
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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)
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Program Elements for Code B Items:	Code: A	Other Related Program Elements:
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	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	79848	750	1982									82580
Gross Cost	215.4	3.8	8.6	0.1	0.1	0.1	0.1					228.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	215.4	3.8	8.6	0.1	0.1	0.1	0.1					228.1
Initial Spares												
Total Proc Cost	215.4	3.8	8.6	0.1	0.1	0.1	0.1					228.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M249 Squad Automatic Weapon (M249 SAW) is a lightweight (22 pounds with 200 rounds of ammunition) 5.56mm, one-man operated weapon capable of delivering a sustained volume of automatic, accurate, and lethal fire at ranges of up to 800 meters. The M249 SAW replaces two automatic M16A1 rifles in a rifle squad on a one-for-one basis in all infantry type units and in other units requiring high firepower. The M249 SAW also fills a secondary role as a light machine gun replacing most of the M60 Machine Guns. The Army M249 SAW configuration was changed in October 1989 to include a spare barrel, additional heat shield, and barrel bag. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) additional items are being procured under the Rapid Fielding Initiative (RFI) which quickly provides new weapons and equipment to units deployed.

Justification:

FY2006/2007 procures M249 Spare Barrel Bags for the Rapid Fielding Initiative (RFI).

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: MACHINE GUN, 5.56MM (SAW) (G12900)			Weapon System Type:			Date: February 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Hardware		A	6071	1982	3									
GFM														
Engineering Support			808											
Quality Assurance														
Engineering Studies			131											
Testing			125											
Engineering Change Proposals (ECP's)			110											
ILS			92											
Fielding			82											
TDP Maintenance			12											
RFI - Barrel Bags			942			80			80			82		
RFI - Mount, Sight Kit, AN/PVS4			200											
Total			8573			80			80			82		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 2004	FN Mfg Inc Columbia SC	SS/FFP	TACOM-RI, Rock Island, IL	Feb-04	May-04	1200	3			
FY 2004	FN Mfg Inc Columbia SC	Option	TACOM-RI, Rock Island, IL	Sep-04	May-05	782	3			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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:
A

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	20557	626			352							21535
Gross Cost	334.9	16.2			8.7							359.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	334.9	16.2			8.7							359.8
Initial Spares												
Total Proc Cost	334.9	16.2			8.7							359.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The MK-19, 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. The MK-19 is fielded with the MK93 mount. The weapon will be mounted on select Stryker vehicles, High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), the Armored Personnel Carrier family of vehicles and the M88A1 Recovery Vehicle. During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount.

Justification:

FY 2006 procures 352 MK-19, MOD3, Grenade Machine Guns in support of increased requirements for Army reorganization to Units of Action.

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: GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)			Weapon System Type:			Date: February 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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	A							7403	352	21			
2. GFM								64					
3. Trainers								10					
4. Engineering Support								426					
5. Integrated Logistics Support (ILS)								100					
6. Fielding								200					
7. Engineering Studies								290					
8. First Destination Transportation								50					
9. Arms Rack								172					
Total								8715					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware										
FY 2003	Gen Dyn Armament & Tech Prod	Option	TACOM, Rock Island Arsenal,	L	FEB 03	FEB 04	626	16		
FY 2006	Gen Dyn Armament & Tech Prod Saco, Maine	SS/FFP	TACOM, Rock Island Arsenal,	L	MAR 06	SEP 07	352	21	YES	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty			577	577								1154
Gross Cost	142.7	4.3	8.0	5.2	0.2		4.3	3.2	5.1	5.2		178.3
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)	142.7	4.3	8.0	5.2	0.2		4.3	3.2	5.1	5.2		178.3
Initial Spares												
Total Proc Cost	142.7	4.3	8.0	5.2	0.2		4.3	3.2	5.1	5.2		178.3
Flyaway U/C												
Wpn Sys Proc U/C			0.0									

Description:

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, contacted the firing pin and exploded in the tube. A removable firing pin will prevent ignition of a round during misfire procedure and removal. A similar design is currently being used with the M252 81mm Mortar Weapon System.

The 81mm sub caliber training insert for the 120mm Battalion Mortar System 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. The 81mm sub caliber training insert funding ends in FY04.

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

Justification:

FY06 funding completes production support of the breech cap redesign. Redesign of the breech cap resolves safety issue and is supported by US Army Safety Center study, case number 20020329001.

FY05 funding does not include \$24.5 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

81mm Training Insert: TC Date 2QFY05

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 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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													
120mm Breech Cap		4181	577	7	4517	577	8						
M67 Sight Units		1355	502	3									
Subtotal Hardware		5536			4517								
PRODUCTION SUPPORT													
Production Engineering		320			278								
ILS, Fielding and NET		249			256			200					
Lot Acceptance Test (LAT)		200			187								
Subtotal Production Support		769			721			200					
NON-RECURRING COSTS													
Mortar Weapon Product Improvements		1674											
First Article Test (FAT) - Breech Cap		50											
Subtotal Non-Recurring Costs		1724											
TOTAL		8029			5238			200					
Total		8029			5238			200					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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
120mm Breech Cap										
FY 2004	Imperial Machine Tools Blairstown, NJ	C/FP	Picatinny, NJ	Mar 04	Sep 04	577	7	Yes		
FY 2005	Imperial Machine Tools Blairstown, NJ	WR/FP	Picatinny, NJ	Mar 05	Aug 05	577	8	Yes		
M67 Sight Units										
FY 2004	Seiler Instruments St Louis, MO	C/FP	Rock Island, IL	Feb 05	Feb 06	502	3	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	610865	5564			14500	2950	2950	2950				639779
Gross Cost	277.8	3.0			8.0	1.9	1.9	1.9				294.4
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)	277.8	3.0			8.0	1.9	1.9	1.9				294.4
Initial Spares												
Total Proc Cost	277.8	3.0			8.0	1.9	1.9	1.9				294.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Roll up for the M16 Rifle family of weapons.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	58565	5564			14500	2950	2950	2950				87479
Gross Cost	23.7	3.0			8.0	1.9	1.9	1.9				40.3
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)	23.7	3.0			8.0	1.9	1.9	1.9				40.3
Initial Spares												
Total Proc Cost	23.7	3.0			8.0	1.9	1.9	1.9				40.3
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.

Justification:

FY2006/2007 procures 17,450 M16A4 Rifles. The funding profile is required to procure additional M16A4 rifles for training. The M16A4 Rifle was developed as part of the Modular Weapons System (MWS) Program. 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.

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: M16A4 RIFLE (G14912)			Weapon System Type:			Date: February 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Hardware		A						6989	14500	0.5	1527	2950	0.5	
Engineering Support								724			208			
Engineering Change Proposals								87			19			
Integrated Logistics Support								50			38			
Fielding/Transportation								150			74			
Total								8000			1866			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: M16A4 RIFLE (G14912)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 2006	Unknown	C/FFP	TACOM-ROCK ISLAND, IL	Jan 06	Dec 06	14500	0.5	Yes		
FY 2007	Unknown	Option	TACOM-ROCK ISLAND, IL	Jan 07	Nov 07	2950	0.5			
	Unknown									
	Unknown									

REMARKS: NEW CONTRACT IS CURRENTLY IN AWARD PROCESS FOR USMC, FMS AND OTHER REQUIREMENTS. ANTICIPATED AWARD DATE: JUN 05 TO BE AWARDED AS REQUIREMENTS TYPE CONTRACT FOR A PERIOD OF 5 YEARS.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

Appropriation/Budget Activity/Serial No:

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

P-1 Item Nomenclature

M107, CAL. 50, SNIPER RIFLE (G01500)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	198	600	600	600	600	545						3143
Gross Cost	2.7	9.7	9.2	8.8	9.7	8.4	0.2					48.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.7	9.7	9.2	8.8	9.7	8.4	0.2					48.7
Initial Spares												
Total Proc Cost	2.7	9.7	9.2	8.8	9.7	8.4	0.2					48.7
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. The M107, with a family of ammunition, enables sniper teams to employ greater destructive force at greater ranges and at a high rate of fire. 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 of opposing snipers armed with smaller caliber weapons out to 1000 meters. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured as part of the Rapid Fielding Initiative (RFI). The RFI provides new equipment (Laser Filter Units, Spotter Scopes and ancillary items) to units deployed.

Justification:

FY 2006/2007 procures 1,145 M107 Sniper Weapons, plus spotter scopes being procured under RFI. The M107 is more effective against light materiel and personnel targets and supplements the sniper's role to support combat operations. It allows precise engagement of high value targets and counter sniper capability, and provides more destructive force terminal effects at greater ranges and a high rate of fire. The M107's effective range is 2000 meters for (anti-materiel) and 1000 meters for (anti-personnel).

FY05 funding does not include \$0.9M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

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: M107, CAL. 50, SNIPER RIFLE (G01500)			Weapon System Type:			Date: February 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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												
Weapons			6000	600	10.00	6042	600	10.07	6042	600	10.07	4751	475	10.20
Laser Protection Filters & Anti-Reflect			780	1448	0.54	78	104	0.75	306	600	0.51	288	475	0.61
Flash/Sound/Recoil Suppressors									1275	1020	1.25	1166	933	1.25
GFM			218	600	0.36				108	600	0.18	104	475	0.22
Testing Hardware						125								
Maintenance Contract			65			100			80			40		
Packaging			54						24			22		
Shipping (GBL)			25			25			25			20		
Retrofit/Refurbishment of Urgent Release			300			675			329					
Rapid Fielding Initiative (Var. items)		209			91			191			191			
2. Engineering Support		554			671			337			394			
3. STRICOM (MILES)		250			500			494			1025			
5. Testing		70												
6. Integrated Logistical Support		135			145			105			100			
7. New Equipment Training		270			225			200			190			
8. Fielding		72			145			125			125			
9. ECPs					15			15			15			
10. Flash Suppressor Study		170												
Total		9172			8837			9656			8431			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: M107, 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 2004	Barrett Firearms Mfg. Murfreesboro, TN	Option	TACOM, Picatinny, NJ	DEC 03	AUG 04	600	10.00			
FY 2005	Barrett Firearms Mfg. Murfreesboro, TN	Option	TACOM, Picatinny, NJ	DEC 04	AUG 05	600	10.07	YES		
FY 2006	Barrett Firearms Mfg. Murfreesboro, TN	Option	TACOM, Picatinny, NJ	DEC 05	AUG 06	600	10.07	YES		
FY 2007	Barrett Firearms Mfg. Murfreesboro, TN	SS/FFP	TACOM, Picatinny, NJ	MAR 07	NOV 07	475	10.20			
Laser Protection Filters & Anti-Reflect										
FY 2004	Litton Systems Inc., Dallas, TX	Option	TACOM-Rock Island, IL	DEC 03	JUN 04	600	0.50			
FY 2004	Tenebraex Boston, MA	SS/FFP	TACOM, Picatinny, NJ	SEP 04	JUN 05	248	0.74			
FY 2004	TBS	C/FFP	TACOM, Picatinny, NJ	APR 05	OCT 05	600	0.50			
FY 2005	Tenebraex Boston, MA	SS/FFP	TACOM, Picatinny, NJ	JAN 05	JUL 05	104	0.75	YES		
FY 2006	TBS	Option	TACOM, Picatinny, NJ	DEC 05	JUN 06	600	0.51	YES		
FY 2007	TBS	Option	TACOM, Picatinny, NJ	DEC 06	JUN 07	475	0.61			
Flash/Sound/Recoil Suppressors										
FY 2005	TBS	C/FFP	TACOM, Picatinny, NJ	MAR 05	JUL 05			NO	JAN 05	
FY 2006	TBS	Option	TACOM, Picatinny, NJ	DEC 05	FEB 06	1020	1.25	NO		

REMARKS: Laser Protection Filter awards for FY06 and FY07 are options to the FY04 Competitive/Firm Fixed Price TBS contract.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: M107, 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
FY 2007	TBS	Option	TACOM, Picatinny, NJ	DEC 06	FEB 07	933	1.25			

REMARKS: Laser Protection Filter awards for FY06 and FY07 are options to the FY04 Competitive/Firm Fixed Price TBS contract.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	120383	7809	8158	8849	2106							147305
Gross Cost	72.4	8.9	8.9	9.3	3.2	0.1						102.9
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)	72.4	8.9	8.9	9.3	3.2	0.1						102.9
Initial Spares												
Total Proc Cost	72.4	8.9	8.9	9.3	3.2	0.1						102.9
Flyaway U/C												
Wpn Sys Proc U/C		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, select 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. More compact and featuring a collapsible stock, it achieves over 85% commonality with the M16A4 Rifle.

Justification:

FY 2006 procures 2,106 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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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	8196	8158	1.0	8708	8849	1.0	2140	2106	1.2			
2. Engineering Support			500			418			550			91		
3. Integrated Logistics Support			85			80			200					
4. Fielding/Transportation			130			134			325					
5. Engineering Studies														
6. Engineering Services														
Total			8911			9340			3215			91		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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 2004	Colt's Mfg Co. Inc	SS/FFP	TACOM-Rock Island Arsenal, IL		Apr 04	Aug 04	8158	1		
FY 2005	Hartford, CT Colt's Mfg Co. Inc	Option	TACOM-Rock Island Arsenal, IL		Oct 04	Apr 05	8849	1	Yes	
FY 2006	Hartford, CT Colt's Mfg Co. Inc	Option	TACOM-Rock Island Arsenal, IL		Jan 06	Apr 06	2106	1	Yes	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

Appropriation/Budget Activity/Serial No:

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

P-1 Item Nomenclature

Common Remotely Operated Weapons Station (CROWS) (G04700)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				28								28
Gross Cost				8.5								8.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				8.5								8.5
Initial Spares												
Total Proc Cost				8.5								8.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Common Remotely Operated Weapon Station (CROWS) is a mount that provides the capability to remotely operate all Standard US Army machine guns (M2 Heavy Barrel Machine Gun, MK-19 Genade Machine Gun, M240B Medium Machine Gun and M249 Squad Automatic Weapon) on an Up-Armored High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) and a variety of other vehicles. CROWS permits the gunner to manipulate the sight and weapon from under armor using a hand controller and flat panel display. Missions can be carried out under conditions of varying visibility via the day camera or second generation Forward Looking Infrared (FLIR) camera. The laser rangefinder and two axis stabilization allows for accurate fire on the move at speeds up to 15 miles/hr across cross country terrain.

Justification:

The Common Remotely Operated Weapon Station (CROWS) Program, is a mount that provides the remote operation of various machine guns currently in Army inventory on a variety of vehicles. CROWS significantly reduces the number of casualties suffered by our Soldiers. It increases Soldier survivability two-fold: by allowing engagement of enemy targets while gunners are protected inside armored vehicles, and greatly increasing first burst hit probability using its laser range finder and built in ballistic solutions. It reduces system cost by using existing standard US Army Weapons, and by acting as a common platform across multiple vehicles. To reduce the cost of potential improvements, CROWS uses a modular architecture. CROWS employs a second generation Forward Looking Infrared (FLIR) sensor which helps maintain US forces fighting superiority both day and night. The Army strongly supports this system to minimize casualties especially in Military Operations in Urban Terrain (MOUT) environments while maximizing the benefit of a common operating system across vehicle types. FY05 funding will procure 28 CROWS systems to meet an Urgent Operational Need for Operation Iraqi Freedom (OIF).

FY05 funding does not include \$70.5 million for the Force Protection / Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: Common Remotely Operated Weapons Station (CROWS) (G04700)			Weapon System Type:			Date: February 2005			
WTCV Cost Elements		ID	FY 04			FY 05			FY 06			FY 07		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
HARDWARE														
CROWS system		B				7000	28	250						
Vehicle Integration Kit						499	28	18						
Engineering Support						708								
Integrated Logistics Support						120								
Testing						120								
First Destination Transportation						20								
Total						8467								

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: Common Remotely Operated Weapons Station (CROWS) (G04700)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
CROWS system FY 2005	Recon Optical Inc (ROI) Barrington, IL	SS/FFP	TACOM, Picatinny, NJ	DEC 04	DEC 04	28	250	YES		
Vehicle Integration Kit FY 2005	Ogara Hess & Eisenhard Armar, CO	SS/FFP	TACOM, Picatinny, NJ	DEC 04	DEC 04	28	18	YES		

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

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				16	19	73	125				40	273
Gross Cost	1.1		7.9	37.1	46.8	155.9	253.5	7.1			92.0	601.4
Less PY Adv Proc	0.0											
Plus CY Adv Proc	0.0											
Net Proc (P-1)	1.1		7.9	37.1	46.8	155.9	253.5	7.1			92.0	601.4
Initial Spares												
Total Proc Cost	1.1		7.9	37.1	46.8	155.9	253.5	7.1			92.0	601.4
Flyaway U/C												
Wpn Sys Proc U/C				2.3	2.5	2.1	2.0				2.3	

Description:

The Lightweight 155mm Towed Howitzer (LW155) is a Joint USMC/Army Program. A 40% reduction in weight compared to the current system allows for greater strategic and tactical mobility while improving range, weapon stability, accuracy, and durability. Significantly improved battlefield mobility creates a weapon that is more survivable and lethal. The LW155 has a digital fire control system but retains conventional fire control as a backup. The digital fire control 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.

Justification:

FY 2006/2007 procures 92 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. 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.

Note: For years FY07 through FY09, funding has been added to cover a \$371 thousand dollar unit cost increase resulting from changes in exchange rates and increases in industrial commodity prices. This funding increase is reflected in FY07(+\$25 million), FY08(\$+58 million), and FY09(+\$3.5 million). These funds will come from the Guided MLRS Rocket (GLMRS) program funded in the Missile Procurement Army appropriation. This increase is not reflected in the printed FYDP and Procurement Annex. The Guided MLRS Rocket budget document has also been footnoted.

The total production quantity reflected in these exhibits remains the same as those in the Procurement Annex; however, there is a slight variation in the FY05-FY07 quantity totals to satisfy production requirements of both the Army and Marine Corps on this Joint multiyear 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: HOWITZER LT WT 155MM (T) (G01700)			Weapon System Type:			Date: February 2005			
WTCV Cost Elements		ID	FY 04			FY 05			FY 06			FY 07		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
WVA Cannon Long Lead			736	16	46	874	19	46	3358	73	46	5750	125	46
BAE Lightweight 155mm Howitzer						22960	16	1435	27265	19	1435	104755	73	1435
BAE Towed Artillery Digitization						4000	16	250	4750	19	250	18250	73	250
Watervliet Arsenal Cannon						3280	16	205	3895	19	205	14965	73	205
Primer Feed Mechanism						400	16	25	475	19	25	1825	73	25
Basic Initial Issue						200			228			876		
Watervliet Arsenal Facilitization			5100											
System Engineering / Program Management			2103			2000			2000			2000		
Test						300			500			2000		
Fielding						3051			4315			5450		
Total			7939			37065			46786			155871		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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
WVA Cannon Long Lead										
FY 2004	Watervliet Arsenal Watervliet, NY 12189	MIPR		Dec '03	Feb '05	16	46			
FY 2005	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 05	Apr 06	19	46			
FY 2006	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 06	Apr 07	73	46			
FY 2007	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 07	Apr 08	125	46			
BAE Lightweight 155mm Howitzer										
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Mar 05	Apr 06	16	1435			
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK					19	1435			
FY 2007	BAE SYSTEMS Barrow-in-Furness, UK					73	1435			
BAE Towed Artillery Digitization										
FY 2005	BAE SYSTEMS Barrow-in-Furness, UK	MYP/FFP	Picatinny Arsenal, NJ	Mar 05	Apr 06	16	250			
FY 2006	BAE SYSTEMS Barrow-in-Furness, UK					19	250			
FY 2007	BAE SYSTEMS Barrow-in-Furness, UK					73	250			
Watervliet Arsenal Cannon										
FY 2005	Watervliet Arsenal Watervliet, NY 12189	MIPR		Mar 05	Apr 06	16	205			

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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
FY 2006	Watervliet Arsenal Watervliet, NY 12189			Mar 06	Apr 07	19	205			
FY 2007				Mar 07	Apr 08	73	205			
Primer Feed Mechanism										
FY 2005	TBD	TBD		Mar 05	Apr 06	16	25			
FY 2006	TBD					19	25			
FY 2007	TBD					73	25			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	6.3	2.8	3.8	4.2	5.4	3.4	6.6	8.0	8.8	9.0		58.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.3	2.8	3.8	4.2	5.4	3.4	6.6	8.0	8.8	9.0		58.2
Initial Spares												
Total Proc Cost	6.3	2.8	3.8	4.2	5.4	3.4	6.6	8.0	8.8	9.0		58.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The MK-19 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 MK-19, various system enhancements have been identified that further improve the system by increasing operational capabilities and improving reliability, readiness, maintainability, and safety. These improvements include a lightweight adjustable sight bracket; a weapon-sight bracket interface; improved firing pin sear with modified firing pin; an adjustable secondary drive lever; and, a new start Tactical Engagement Simulator (TES) to support Force-on-Force Training.

Justification:

FY 2006/2007 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 .50 Cal and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. The adjustable sight bracket will provide a means of mounting light accessories (laser pointer/designator, combat ID, optics) on the MK-19. When attached to the MK-19, the sight base will provide a mounting interface for various fire control and night vision devices. The improved firing pin sear with modified firing pin will increase the parts life of the sear. The adjustable secondary drive lever improves maintainability and readiness of the MK-19 by lowering the level of maintenance and ease of feed slide adjustment. The TES provides Army units with the ability to realistically "train as they fight" by simulating force-on-force engagements in order to improve the user's effectiveness with this weapon system.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Modification Kit											
TBD1		8.7	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.9
Tactical Engagement Simulator (TES)											
TBD2		0.0	1.1	3.6	2.9	6.3	7.9	8.8	9.0	0.0	39.6
Lightweight Adjustable Sight Bracket											
TBD3		4.2	1.5	1.2	0.4	0.3	0.1	0.0	0.0	0.0	7.7
Totals		12.9	4.2	5.4	3.3	6.6	8.0	8.8	9.0	0.0	58.2

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Modification Kit [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: MK-19 Grenade Machine Gun

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	18657																			18657	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Hardware	0	4.5																			4.5
--	0																				
Engineering Support	0	1.6	0.8		0.2																2.6
Testing	0	0.0																			
Integrated Logistics Supprt	0	0.8	0.3		0.1																1.2
Fielding	0	1.8	0.5		0.3																2.6
--	0																				
--	0																				
Installation of Hardware	0																				
FY2004 & Prior Equip -- Kits	13322		2668		2667																18657
FY2005 Equip -- Kits	0																				
FY2006 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2007 Equip -- Kits	0																				
FY2008 Equip -- Kits	0																				
FY2009 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	13322	0.0	2668	0.0	2667	0.0		0.0		0.0		18657	0.0								
Total Procurement Cost		8.7		1.6		0.6		0.0		0.0			10.9								

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: MK-19 Grenade Machine Gun

DESCRIPTION/JUSTIFICATION:

Tactical Engagement Simulator (TES)

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	0		50		335		236		518		653		687		680					3159	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Hardware	0			0.5		3.2		2.4		5.2		6.9		7.5		7.6					33.3
--	0																				
Engineering Support	0			0.5		0.2		0.3		0.6		0.6		0.8		0.9					3.9
Testing	0																				
Integrated Logistical Support	0			0.1		0.1		0.1		0.3		0.2		0.2		0.2					1.2
Fielding	0					0.1		0.1		0.2		0.2		0.3		0.3					1.2
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2004 & Prior Equip -- Kits	0																				
FY2005 Equip -- Kits	0				50																50
FY2006 Equip -- Kits	0						335														335
FY2007 Equip -- Kits	0							236													236
FY2008 Equip -- Kits	0								518												518
FY2009 Equip -- Kits	0									653											653
FY2010 Equip - Kits	0											653									653
FY2011 Equip - Kits	0												687								687
FY2012 Equip - Kits	0															680					680
Total Installment	0	0.0		0.0	50	0.0	335	0.0	236	0.0	518	0.0	653	0.0	687	0.0	680	0.0	3159	0.0	
Total Procurement Cost		0.0		1.1		3.6		2.9		6.3		7.9		8.8		9.0		0.0			39.6

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: MK-19 Grenade Machine Gun

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Kit Quantity	7897		1620		1481		408		278											11684	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Hardware	0	3.0		0.8		0.8		0.2		0.1											4.9
--	0																				
Engineering Support	0	0.7		0.3		0.2		0.1		0.1											1.4
Testing	0																				
Integrated logistical Support	0	0.3		0.1		0.1		0.0		0.0											0.5
Fielding	0	0.2		0.3		0.1		0.1		0.1		0.1									0.9
--	0																				
--	0																				
Installation of Hardware	0																				
FY2004 & Prior Equip -- Kits	952		2400		2400		2145														7897
FY2005 Equip -- Kits	0						255		1365												1620
FY2006 Equip -- Kits	0								919		562										1481
FY2007 Equip -- Kits	0									408											408
FY2008 Equip -- Kits	0									278											278
FY2009 Equip -- Kits	0																				
TC Equip- Kits	0																				
Total Installment	952	0.0	2400	0.0	2400	0.0	2400	0.0	2284	0.0	1248	0.0		0.0		0.0			0.0	11684	0.0
Total Procurement Cost		4.2		1.5		1.2		0.4		0.3		0.1		0.0		0.0			0.0		7.7

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	50.0	33.3	48.2	13.7	44.8	17.1	13.9	6.3	13.7	9.8		250.9
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)	50.0	33.3	48.2	13.7	44.8	17.1	13.9	6.3	13.7	9.8		250.9
Initial Spares												
Total Proc Cost	50.0	33.3	48.2	13.7	44.8	17.1	13.9	6.3	13.7	9.8		250.9
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. The modular weapon suite includes a rail system, a top carry sling, a flashlight mount, a quick attach bracket kit for the M203 Grenade Launcher, and a permanently fixed back-up iron sight. It also provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine.

Justification:

FY2006/2007 procures M4 Modular Weapon Systems (MWS), Close Combat Optics (CCO), Close Quarters Battle Kit (New Start), and a Designated Marksmanship Sight (New Start). 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. 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 close quarters battle kit provides the Soldier with multiple low cost items to increase lethality and survivability with the M4 carbine and/or M16A4 rifle.

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, Magnified Optics, Tactical Weapon Lights, Bipods, Forward Grips, Cleaning Kits, Improved Buttstocks, and Slings.

FY05 funding does not include \$34.8 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Modular Weapon System											
TBD1	Operational	37.7	5.5	3.5	4.2	3.5	0.2	0.0	0.0	0.0	54.6
Close Combat Optic											
TBD2	Operational	15.6	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Close Quarters Battle Kit											
TBD3	Operational	0.0	0.0	5.2	5.3	5.2	3.6	6.8	5.3	0.0	31.4
Closed Mods											
TBD4		2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Rapid Fielding Initiative											
TBD5	Operational	75.8	6.2	35.9	7.6	5.2	2.5	6.9	4.5	0.0	144.6
Totals		131.5	13.7	44.8	17.1	13.9	6.3	13.7	9.8	0.0	250.8

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Modular Weapon System [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

DESCRIPTION/JUSTIFICATION:

The modular weapon is a system of mounting rails/methods to allow the custom configuration of M4 Carbines with ancillary items such as optics, night sights, Infrared (IR) laser pointers, the grenade launcher, etc. based upon mission requirements. The Modular Weapon System includes the adapter rail system, 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 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0																					
Outputs	0																					

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Quantity (Rail Systems Only)	84240																0		84240		
Quantity (Other Components)	41235		33000		20000		13000		13000								0		120235		
Installation Kits, Nonrecurring	0																				
Hardware	0	33.3		4.6		2.5		2.2		2.3											44.9
Equipment, Nonrecurring	0																				
Engineering Support	0	2.3		0.5		0.6		0.7		0.7		0.1									4.9
Testing	0	0.0																			
Integrated Logistical Support	0	0.7		0.2		0.2		0.3		0.3											1.7
Fielding	0	1.0		0.2		0.2		0.2		0.2		0.1									1.9
Engineering Study	0	0.4						0.8													1.2
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2004& Prior Equip -- Kits	82210			2030																	84240
FY2004& Prior Other Equip -- Kits	0			41235																	41235
FY2005 Other Equip -- Kits	0					33000															33000
FY2006 Other Equip -- Kits	0							20000													20000
FY2007 Other Equip -- Kits	0									13000											13000
FY2008 Other Equip -- Kits	0											13000									13000
Total Installment	82210	0.0	43265	0.0	33000	0.0	20000	0.0	13000	0.0	13000	0.0		0.0		0.0		0.0	204475	0.0	
Total Procurement Cost		37.7		5.5		3.5		4.2		3.5		0.2		0.0		0.0		0.0		0.0	54.6

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Close Combat Optic [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

DESCRIPTION/JUSTIFICATION:

The Close Combat Optic will be installed on the M4 Carbine. The Close Combat Optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity. The Close Combat Optic gives the Soldier greater hit probability in daylight, low light level, wet weather and other adverse conditions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0																					
Outputs	0																					

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Quantity	62929		5970															0		68899	
Installation Kits	0																				
Installation Kits, Nonrecurring	0																				
Hardware	0	14.2		1.7																	15.9
Equipment, Nonrecurring	0																				
Engineering Support	0	0.8		0.1		0.1															1.0
Testing	0	0.2																			0.2
Integrated Logistical Support	0	0.2		0.1																	0.3
Fielding	0	0.2		0.1		0.1															0.4
Other	0																				
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2004 & Prior Equip -- Kits	60529		2400																	62929	
FY2005 Equip -- Kits	0				5970															5970	
Total Installment	60529	0.0	2400	0.0	5970	0.0		0.0		0.0		0.0		0.0		0.0		0.0	68899	0.0	
Total Procurement Cost		15.6		2.0		0.2		0.0		0.0		0.0		0.0		0.0		0.0			17.8

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

DESCRIPTION/JUSTIFICATION:

The Close Quarters Battle Kit provides the Soldier with multiple low cost items to increase lethality and survivability with individual weapons. The Close Quarters Battle Kit will provide but not be limited to the following items: low profile bipods; cleaning kits; improved magazines; magazine pouches; multiple magazine holders with storage pouches; forward rail brackets; improved weapon slings; and spray on weapon camouflage.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

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

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 5] TBD5

MODELS OF SYSTEM AFFECTED: M4 Carbine (5.56mm)

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

Contract Dates: FY 2006 FY 2007 FY 2008

Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	RDT&E	0																				
Procurement	0																					
Multiple Items	0	64.8		4.8		29.3		5.8		4.1		2.2		5.1		3.6					119.7	
Engineering Support	0	10.4		0.7		3.0		0.8		0.6		0.3		0.8		0.4					17.0	
Testing	0																					
Integrated Logistic Support	0			0.1		0.6		0.2		0.1		0.0		0.2		0.1					1.3	
Fielding	0	0.1		0.1		0.6		0.2		0.1		0.0		0.2		0.1					1.4	
Engineering Study	0	0.1																			0.1	
Interim Contractor Support	0	0.4		0.5		2.4		0.6		0.3		0.0		0.6		0.3					5.1	
Installation of Hardware	0																					
FY2004 & Prior Equip -- Kits	0																					
FY2005 Equip -- Kits	0																					
FY2006 Equip -- Kits	0																					
FY2007 Equip -- Kits	0																					
FY2008 Equip -- Kits	0																					
FY2009 Equip -- Kits	0																					
FY2010 Equip -- Kits	0																					
FY2011 Equip -- Kits	0																					
TC Equip- Kits	0																					
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0					0.0	
Total Procurement Cost		75.8		6.2		35.9		7.6		5.2		2.5		6.9		4.5					0.0	144.6

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	17.0	13.6	13.1	3.4	3.1	5.3	9.4	4.2	5.1	3.2		77.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.0	13.6	13.1	3.4	3.1	5.3	9.4	4.2	5.1	3.2		77.3
Initial Spares												
Total Proc Cost	17.0	13.6	13.1	3.4	3.1	5.3	9.4	4.2	5.1	3.2		77.3
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 either the automatic rifle role or light machine gun role. Various system enhancements have been identified that further improves the use of this weapon system by increasing functionality and performance capabilities. These include the addition of a feedtray cover rail and forward rail assemblies. Addition of these rails provides a MIL-STD-1913 interface allowing the mounting of standard military optics and other target designation devices directly to the machine gun. Improved components include an improved collapsible buttstock, improved bipod and 200-round ammunition pack. Other items being procured to enhance Soldier performance include a Light Weight Ground Mount and Short Barrel. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) additional items (such as pistol grips, rail covers, ammo packs, spare barrel bags etc..) are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units deployed.

Justification:

FY2006/2007 procures Improved Bipods, Improved Collapsible Buttstocks and Light Weight Ground Mounts. The Improved Bipod is stronger than the existing bipod, allows the Soldier better adjustability and is compatible with the accessory rail kit. The Improved Collapsible Buttstock provides the Soldier improved ergonomics resulting in greater target acquisition. The M192 Light Weight Ground Mount, which weighs 11.4 pounds, will reduce the Soldier's combat load weight by 6.4 pounds. It will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as contain a series of index marks that will enable gunners to construct a range data card.

FY05 funding does not include \$8.4M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	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	10.2	1.7	0.0	1.6	1.8	1.9	1.4	1.1	0.0	19.7
M249 Short Barrel/Coll Buttstock/Heatshield											
TBD3	Operational	10.5	0.1	1.3	1.5	1.6	0.7	0.7	0.9	0.0	17.3
Light Weight Ground Mount											
TBD4	Operational	3.0	1.1	1.3	1.8	5.6	1.6	3.0	1.2	0.0	18.6
Rapid Fielding Initiative											
TBD5	Operational	11.3	0.5	0.5	0.4	0.4	0.0	0.0	0.0	0.0	13.1
Closed Mods											
TBD6		6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Totals		43.6	3.4	3.1	5.3	9.4	4.2	5.1	3.2	0.0	77.3

INDIVIDUAL MODIFICATION

Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

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

When the SAW is used in the automatic rifle role, the bottom rail provides an attachment point for the vertical handgrip. The front side rails accommodate the devices when the weapon is used in either role.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Developmental/User Test 2Q00 (Actual)
 Production Decision 3Q00 (Actual)
 Production Contract Award 4Q00 (Actual)
 First Production Hardware Delivered 3Q01 (Actual)
 First Unit Equipped 3Q00 (Actual)*
 * 300 pre-production rails delivered to Rangers

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Various Components)	146521		9000				12000		12000		12000		8000		6000				205521	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		8.1		1.4				1.3		1.4		1.4		1.0		0.8				15.4
Equipment, Nonrecurring																				
Engineering Support		1.4		0.2				0.2		0.3		0.3		0.3		0.2				2.9
Testing																				
Integrated Logistical Support		0.4		0.1				0.1		0.1		0.1		0.1		0.1				1.0
Fielding		0.3		0.0				0.0		0.0		0.1		0.0		0.0				0.4
Other																				
Interim Contractor Support																				
Installation of Hardware		0																		
FY2004 & Prior Equip -- Kits	108084		38437																	146521
FY2005 Equip -- Kits					6000		3000													9000
FY2006 Equip -- Kits							6000		6000											12000
FY2007 Equip -- Kits									6000											12000
FY2008 Equip -- Kits										6000										12000
FY2009 Equip -- Kits											6000									12000
FY2010 Equip -- Kits												6000								8000
FY2011 Equip -- Kits													6000		2000					6000
TC Equip- Kits																				
Total Installment	108084	0.0	38437	0.0	6000	0.0	9000	0.0	12000	0.0	12000	0.0	12000	0.0	8000	0.0		0.0	205521	0.0
Total Procurement Cost		10.2		1.7		0.0		1.6		1.8		1.9		1.4		1.1		0.0		19.7

INDIVIDUAL MODIFICATION

Date: February 2005

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. As a result, the shorter weapon enhances operational capability by improving Military Operations in Urban Terrain (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 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0																					
Outputs	0																					

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

METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2006	FY 2007	FY 2008	
Delivery Date:	FY 2006	FY 2007	FY 2008	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Varoius Components)	21143				1400		1800		1500		800		700		1000				28343	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		9.3			0.7		1.0		0.8		0.5		0.4		0.6					13.3
Equipment, Nonrecurring																				
Engineering Support		0.8		0.1	0.4		0.3		0.6		0.2		0.2		0.3					2.9
Testing																				
Integrated Logistical Support		0.2		0.0	0.1		0.1		0.1		0.0		0.1		0.0					0.6
Fielding		0.2		0.0	0.1		0.1		0.1		0.0		0.0		0.0					0.5
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY2004 & Prior Equip -- Kits	8482		900		11761															21143
FY2005 Equip -- Kits					250		1150													1400
FY2006 Equip -- Kits							650		1150											1800
FY2007 Equip -- Kits									650											1500
FY2008 Equip -- Kits										850										800
FY2009 Equip -- Kits										800										700
FY2010 Equip -- Kits												700								1000
FY2011 Equip -- Kits														1000						1000
TC Equip- Kits																				
Total Installment	8482	0.0	900	0.0	12011	0.0	1800	0.0	1800	0.0	1650	0.0	700	0.0	1000	0.0		0.0	28343	0.0
Total Procurement Cost		10.5		0.1		1.3		1.5		1.6		0.7		0.7		0.9		0.0		17.3

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	1072		570		800		900		3000		683		1300		400				8725	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		2.4		0.9		1.0		1.2		4.8		1.2		2.4		0.8				14.7
Equipment, Nonrecurring																				
Engineering Support		0.3		0.2		0.2		0.4		0.5		0.3		0.4		0.3				2.6
Testing		0.1																		0.1
Integrated Logistical Support		0.1		0.0		0.1		0.1		0.1		0.0		0.1		0.1				0.6
Fielding		0.1		0.0		0.0		0.1		0.2		0.1		0.1		0.0				0.6
New Equipment Training						0.0		0.0		0.0		0.0		0.0		0.0				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2004 & Prior Equip -- Kits			1072																	1072
FY2005 Equip -- Kits					570															570
FY2006 Equip -- Kits					230		570													800
FY2007 Equip -- Kits						230		670												900
FY2008 Equip -- Kits								730		1400			870							3000
FY2009 Equip -- Kits												530		153						683
FY2010 Equip -- Kits													1247				53			1300
FY2011 Equip -- Kits																400				400
TC Equip- Kits																				
Total Installment	0	0.0	1072	0.0	800	0.0	800	0.0	1400	0.0	1400	0.0	1400	0.0	1400	0.0	453	0.0	8725	0.0
Total Procurement Cost		3.0		1.1		1.3		1.8		5.6		1.6		3.0		1.2		0.0		18.6

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 5] TBD5

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

This funds the following items under the Rapid Fielding Initiative: Pistol Grips, Rail Covers, Accessory Rail Kits, Ammo Packs, Short Barrels, Collapsible Buttstocks, XM192 Tripods, Spare Barrel Bags.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2006	FY 2007	FY 2008	
Delivery Date:	FY 2006	FY 2007	FY 2008	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Various Components)																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		8.9		0.3		0.3		0.3		0.3										10.1
Equipment, Nonrecurring																				
Engineering Support		1.6		0.1		0.1		0.1		0.1										2.0
Testing																				
Integrated Logistical Support		0.3		0.1		0.1		0.0		0.0										0.5
Fielding		0.2																		0.2
Other - Engineering Study		0.3																		0.3
Interim Contractor Support																				
Installation of Hardware	0																			
FY2004 & Prior Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
FY2010 Equip -- Kits																				
FY2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		11.3		0.5		0.5		0.4		0.4		0.0		0.0		0.0		0.0		13.1

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	9.5	4.5	3.9	3.4	7.1	5.4	14.2		4.3	3.6		55.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	4.5	3.9	3.4	7.1	5.4	14.2		4.3	3.6		55.8
Initial Spares												
Total Proc Cost	9.5	4.5	3.9	3.4	7.1	5.4	14.2		4.3	3.6		55.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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. Since the initial fielding of the M240B, various system enhancements have been identified that further improves the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch, a spare barrel bag to transport and store overheated barrels, and an improved Light Weight Ground Mount. 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.

Justification:

FY2006/2007 procures XM192 Light Weight Ground Mounts for the M240B Medium Machine Gun. System enhancements have been identified by fielded units to further improve the reliability of this weapon system. The M192 Light Weight Ground Mount, which weighs 11.4 pounds, will reduce the Soldier's combat load weight by 6.4 pounds. It will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as contain a series of index marks that enable gunners to construct a range data card.

FY05 funding does not include \$2.3M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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:

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
M240B System Improvements											
TBD1		1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
XM192 Light Weight Ground Mount											
TBD2		3.0	3.2	6.9	5.2	14.0	0.0	4.3	3.6	0.0	40.2
Rapid Fielding Initiative											
TBD3		5.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	6.2
Closed Mods											
NA		8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
Totals		17.8	3.4	7.1	5.4	14.2	0.0	4.3	3.6	0.0	55.8

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: XM192 Light Weight Ground Mount [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The MX192 Light Weight Ground Mount will reduce the weight of the current M122A1 tripod by approximately 50 percent. It will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as contain a series of index marks that will enable gunners to construct a range data card.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2006	ADMINISTRATIVE LEADTIME:	FY 2007	0 Months	PRODUCTION LEADTIME:	FY 2008	0 Months
Delivery Date:	FY 2006		FY 2007			FY 2008	

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE (Cont): XM192 Light Weight Ground Mount [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	842		1580		3545		2559		6828				1628		1488					18470
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		1.9		2.4		5.8		4.4		12.2				3.1		3.0				32.8
Equipment, Nonrecurring																				
Engineering Support		0.8		0.4		0.8		0.5		0.8				0.7		0.4				4.4
Testing		0.1																		0.1
Integrated Logistical Support		0.1		0.1		0.1		0.1		0.1				0.1		0.1				0.7
Fielding		0.1		0.1		0.1		0.1		0.4				0.1		0.1				1.0
New Equipment Training				0.1		0.0		0.1		0.1				0.1		0.0				0.4
Studies				0.1		0.1				0.4				0.2						0.8
Installation of Hardware	0																			
FY2004 & Prior Equip			842																	842
FY2005 Equip					1580															1580
FY2006 Equip							3545													3545
FY2007 Equip								2559												2559
FY2008 Equip									6828											6828
FY2009 Equip																				
FY2010 Equip														1628						1628
FY2011 Equip																1488				1488
TC Equip																				
Total Installment	0	0.0	842	0.0	1580	0.0	3545	0.0	2559	0.0	6828	0.0		0.0	1628	0.0	1488	0.0	18470	0.0
Total Procurement Cost		3.0		3.2		6.9		5.2		14.0		0.0		4.3		3.6		0.0		40.2

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

This funds the following items under the Rapid Fielding Initiative: M122A1 Tripods, M122A1 Tripod Adapters, M240B Forward Rail Kits, XM192 Light Weight Ground Mounts, M240 Light Weight Short Barrels, M240 Spare Barrel Bags.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION:

Contract Dates:

FY 2006

ADMINISTRATIVE LEADTIME:

0 Months

PRODUCTION LEADTIME:

0 Months

Delivery Date:

FY 2006

FY 2007

FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	and Prior		Qty	\$	Qty	\$	Qty	\$												
	Qty	\$																		
RDT&E																				
Procurement																				
Quantity (Various Components)																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		4.1		0.2		0.2		0.2		0.2										4.9
Engineering Support		0.8		0.0		0.0		0.0		0.0										0.8
Integrated Logistical Support		0.1																		0.1
Fielding		0.0																		
Testing		0.2																		0.2
Studies		0.2																		0.2
Other																				
Interim Contractor Support																				
Installation of Hardware		0																		
FY2004 & Prior Equip																				
FY2005 Equip																				
FY2006 Equip																				
FY2007 Equip																				
FY2008 Equip																				
FY2009 Equip																				
FY2010 Equip																				
FY2011 Equip																				
TC Equip																				
Total Installment	0	0.0		0.0		0.0		0.0												
Total Procurement Cost		5.4		0.2		0.2		0.2		0.2		0.0		0.0		0.0		0.0		6.2

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty			13	13								26
Gross Cost	10.4		9.7	0.8								20.8
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)	10.4		9.7	0.8								20.8
Initial Spares												
Total Proc Cost	10.4		9.7	0.8								20.8
Flyaway U/C												
Wpn Sys Proc U/C			0.7	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 its mission of general support for the light division and Stryker Brigade Combat Teams. The HIPE kits applied in this program fulfill this requirement. The HIPE will greatly enhance the tactical mobility, survivability, and responsiveness of the M198. These modernizations will ensure that the M198 will continue to be a force multiplier today and in the future.

Reprogrammed funds in FY04 were directed by the PEO to modify the existing M198 breech, so that the M198 could safely fire the Modular Artillery Charge System (MACS).

Justification:

FY 2006/2007 no procurement.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Oil Transfer System											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HyPAK											
TBD1 Block 1 Upgrade	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recirculation Kit											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nitrogen Intensifier											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Enhancement											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SBCT Fieldings											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nitrogen Extraction Kit											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Mod											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Mod											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	27.8	4.7			1.0	1.0	1.0					35.6
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)	27.8	4.7			1.0	1.0	1.0					35.6
Initial Spares												
Total Proc Cost	27.8	4.7			1.0	1.0	1.0					35.6
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.

Justification:

FY2006/2007 procures modifications that address deficiencies identified in OIF/OEF and support continued operations for the Global War on Terrorism.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /2/Weapons and other combat vehicles	P-1 Item Nomenclature M16 RIFLE MODS (GZ2800)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
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	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	59.0	19.9	18.4	2.3	2.0	1.0	3.9	1.0	3.6	3.6		114.8
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)	59.0	19.9	18.4	2.3	2.0	1.0	3.9	1.0	3.6	3.6		114.8
Initial Spares												
Total Proc Cost	59.0	19.9	18.4	2.3	2.0	1.0	3.9	1.0	3.6	3.6		114.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Justification:

The FY2006/2007 procures M16 Modular Weapon Systems (MWS). The MWS is a key component of the individual Soldier lethality and allows the combat commander to custom configure weapons with various accessories based upon the mission.

In support of Operation Iraqi Freedom (OIF) and Operations Enduring Freedom (OEF) additional items are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units being deployed. These items include the CCO, powered optics, tactical weapon lights, magazines, bipods, cleaning kits, and slings.

FY05 funding does not include \$14.4 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Modular Weapon System M16/M203											
TBD1	Operational	21.3	2.4	2.0	1.0	3.9	1.0	3.6	3.6	0.0	38.8
Closed Mods											
TBD2		41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8
Rapid Fielding Initiative											
TBD3	Operational	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2
Totals		97.3	2.4	2.0	1.0	3.9	1.0	3.6	3.6	0.0	114.8

INDIVIDUAL MODIFICATION

Date: February 2005

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

MODELS OF SYSTEM AFFECTED: Rifle, 5.56mm M16A4

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0																					
Outputs	0																					

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E	0																			
Procurement	0																				
Quantity (Rail Systems Only)	29333		6718		5963															42014	
Quantity (Other Components)	0						1025		3500		1025		3100		3100					11750	
Installation Kits, Nonrecurring	0																				
Hardware	0	19.0		2.2		1.9		0.9		3.4		0.9		3.2		3.1					34.6
Equipment, Nonrecurring	0																				
Engineering Support	0	1.3		0.1		0.1		0.1		0.3		0.1		0.2		0.3					2.5
Testing	0	0.1																			0.1
Integrated Logistical Support	0	0.3		0.0		0.0		0.0		0.1		0.0		0.1		0.1					0.6
Fielding	0	0.5		0.1		0.0		0.0		0.1		0.0		0.1		0.1					0.9
Engineering Study	0	0.1																			0.1
Interim Contractor Support	0																				
Installation of Hardware	0																				
FY2004 & Prior Equip -- Kits	22138		7195																		29333
FY2005 Other Equip -- Kits	0				6718																6718
FY2006 Other Equip -- Kits	0						5963														5963
FY2007 Other Equip -- Kits	0							1025													1025
FY2008 Other Equip -- Kits	0								3500												3500
FY2009 Other Equip -- Kits	0										1025										1025
FY2010 Other Equip -- Kits	0												3100								3100
FY2011 Other Equip -- Kits	0														3100						3100
TC Other Equip- Kits	0																3100				3100
Total Installment	22138	0.0	7195	0.0	6718	0.0	5963	0.0	1025	0.0	3500	0.0	1025	0.0	3100	0.0	3100	0.0		53764	0.0
Total Procurement Cost		21.3		2.4		2.0		1.0		3.9		1.0		3.6		3.6		0.0			38.8

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED: M16A2/M16A4 Rifle

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

Contract Dates: FY 2006 FY 2007 FY 2008

Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement		32.1																		32.1
Multiple Items																				
Engineering Support		1.9																		1.9
Testing																				
Intergrated Logistics Support		0.1																		0.1
Fielding		0.1																		0.1
Engineering Study																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		34.2		0.0		0.0		34.2												

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

Appropriation/Budget Activity/Serial No:

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

P-1 Item Nomenclature

MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	81.6	13.1	6.1	3.2	5.1	1.7	2.8	0.5	3.1	2.1		119.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.6	13.1	6.1	3.2	5.1	1.7	2.8	0.5	3.1	2.1		119.5
Initial Spares												
Total Proc Cost	81.6	13.1	6.1	3.2	5.1	1.7	2.8	0.5	3.1	2.1		119.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Justification:

FY2006/2007 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 support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to deploying units.

FY05 funding does not include \$5.1M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /2/Weapons and other combat vehicles
 P-1 Item Nomenclature: MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)
 Program Elements for Code B Items: Code: A Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
M145 Machine Gun Optic											
TBD1	Operational	11.2	3.0	4.9	1.5	2.6	0.5	3.1	2.1	0.0	28.9
Rapid Fielding Initiative											
TBD2	Operational	16.1	0.2	0.3	0.3	0.2	0.0	0.0	0.0	0.0	17.1
Closed Mods											
TBD3		73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5
Totals		100.8	3.2	5.2	1.8	2.8	0.5	3.1	2.1	0.0	119.5

INDIVIDUAL MODIFICATION

Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2005				FY 2006				FY 2007				FY 2008				FY 2009					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	0																					
Outputs	0																					

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

METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2006	FY 2007	FY 2008	
Delivery Date:	FY 2006	FY 2007	FY 2008	

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	17112		4200		6009		1321		2631		424		2775		1722				36194	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		9.4		2.6		4.2		1.0		2.0		0.3		2.2		1.4				23.1
Equipment, Nonrecurring																				
Engineering Support		1.2		0.2		0.5		0.5		0.5		0.2		0.7		0.5				4.3
Testing		0.3		0.2		0.2														0.7
Integrated Logistical Support		0.1				0.0		0.0		0.1				0.1		0.1				0.4
Fielding		0.2												0.1		0.1				0.4
Other																				
Interim Contractor Support																				
Installation of Hardware		0																		
FY2004 & Prior Equip -- Kits	17112																			17112
FY2005 Equip -- Kits			4200																	4200
FY2006 Equip -- Kits					6009															6009
FY2007 Equip -- Kits							1321													1321
FY2008 Equip -- Kits									2631											2631
FY2009 Equip -- Kits										424										424
FY2010 Equip -- Kits												2775								2775
FY2011 Equip -- Kits													1722							1722
TC Equip- Kits																				
Total Installment	17112	0.0	4200	0.0	6009	0.0	1321	0.0	2631	0.0	424	0.0	2775	0.0	1722	0.0		0.0	36194	0.0
Total Procurement Cost		11.2		3.0		4.9		1.5		2.6		0.5		3.1		2.1		0.0		28.9

INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: Rapid Fielding Initiative [MOD 2] TBD2

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2006 FY 2007 FY 2008
 Delivery Date: FY 2006 FY 2007 FY 2008

INDIVIDUAL MODIFICATION

Date: February 2005

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Quantity	17428		196		226		191		179											18220	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		13.9		0.1		0.2		0.2		0.1											14.5
Equipment, Nonrecurring																					
Engineering Support		2.0		0.1																	2.1
Testing																					
Integrated Logistical Support		0.1				0.0		0.0		0.0											0.1
Fielding		0.1				0.1		0.1		0.1											0.4
Other																					
Interim Contractor Support																					
Installation of Hardware		0																			
FY2004 & Prior Equip -- Kits	17428																				17428
FY2005 Equip -- Kits			196																		196
FY2006 Equip -- Kits					226																226
FY2007 Equip -- Kits							191														191
FY2008 Equip -- Kits									179												179
FY2009 Equip -- Kits																					
FY2010 Equip -- Kits																					
FY2011 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	17428	0.0	196	0.0	226	0.0	191	0.0	179	0.0	18220	0.0									
Total Procurement Cost		16.1		0.2		0.3		0.3		0.2		0.0		0.0		0.0		0.0		17.1	

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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)							
Program Elements for Code B Items:				Code: A	Other Related Program Elements:							
	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty											Continuing	Continuing
Gross Cost	72.0	5.0	2.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6		82.9
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)	72.0	5.0	2.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6		82.9
Initial Spares												
Total Proc Cost	72.0	5.0	2.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6		82.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Provides for procurement and assembly of tool/shop sets, small arms, gun mounts and Swing Arm Mounts. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and Reserve Officer Training Corps (ROTC) units to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance. The XM320 is a 40mm grenade-launching weapon module that will replace selected M203 series grenade launchers currently mounted on the M16/M4 series of rifles and carbines, and will also provide an initial grenade-launching capability for the Objective Individual Combat Weapon (OICW) Increment 1 system. Arm Mounts are articulated arms for mounting machine guns to the frames of HMMWV's. 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.

Justification:

FY2006/2007 procures items required to achieve and sustain levels of readiness to units providing maintenance support to all small arms (M4, M16, 9mm, 7.62 Machine Gun, XM320 40mm Grenade Launching Module, Swing Arm Mounts etc.), artillery (M102, M119, M198 Howitzers, etc.), air defense (Vulcan, PIVAD, etc.), fire control (Tanks, etc.), Stryker organizations, and special weapons. Swing Arm Mounts are articulated arms for mounting M240/M249 machine guns to the door frame and/or the bed of the HMMWV to increase force protection capabilities. Small Arms Weapons are required to support Urgent Needs, Army Acquisition Objective shortages, field replacements and training requirements.

FY05 funding does not include \$4.0M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	775.7	5.7	7.0	6.6	6.5	6.2	6.4	6.5	7.1	6.1		833.8
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)	775.7	5.7	7.0	6.6	6.5	6.2	6.4	6.5	7.1	6.1		833.8
Initial Spares												
Total Proc Cost	775.7	5.7	7.0	6.6	6.5	6.2	6.4	6.5	7.1	6.1		833.8
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 are either not required for current active production or are not needed by the Army. Provisioning of Industrial Facilities (PIF) occurs at Aberdeen Test Center, MD; White Sands Missile Range, NM; and Yuma Proving Grounds, AZ. The Layaway of Industrial Facilities (LIF) funding supports efforts at Rock Island, IL and Watervliet, NY arsenals.

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

Justification:

FY06 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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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			4517			4613			4678			4202		
LIF			2519			1981			1816			2037		
Total			7036			6594			6494			6239		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /2/Weapons and other combat vehicles						P-1 Item Nomenclature PIF2 OMNIBUS (WOCV-WTCV) (GC2001)						
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	246.0	3.1	4.5	4.6	4.7	4.2	4.3	4.4	4.8	3.7		284.2
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)	246.0	3.1	4.5	4.6	4.7	4.2	4.3	4.4	4.8	3.7		284.2
Initial Spares												
Total Proc Cost	246.0	3.1	4.5	4.6	4.7	4.2	4.3	4.4	4.8	3.7		284.2
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.

Justification:

FY06/07 procures: At ATC, high speed electronic cameras used in fire control system tests to enhance visual instrumentation recording and turnaround time of data to the customer; toxic fumes and particulate analysis instrumentation for the Fire Safety Test Enclosure, used in fire suppression and flammability testing to determine the effect of fire and fire suppression on the crew and environment; upgrade to the Light Armor Range Complex indoor and outdoor ballistic test ranges; instrumentation and instrumentation interfaces for testing on-board computers and micro-controllers in combat vehicles; on-board vehicle data acquisition equipment for measuring shock and vibration in vehicles while 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; equipment to monitor range noise levels to ensure no encroachment upon the local community; and modernization of the transportability and winch test capabilities used to assess the mobility and deployability of combat vehicles.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2005

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; high speed digital imaging camera for vehicle fire control testing that will follow a direct fire projectile's flight path in lieu of using many cameras lined along the flight path; high speed digital cameras for capturing test events; advanced instrumentation for fire control system testing; replacement analytical laboratory analyzers, laboratory equipment, computing equipment and software required for the Material Analysis Laboratory to conduct dust test sampling, propellant and explosive identification, unknown identification, mobile fumes analysis, vehicle crew member breathing air flow measurements, toxic fumes analysis, metal vapor and particulate analysis; upgrades to the combat systems firing range that provides various radio controlled targets to test vehicle fire control systems and an acoustic target scoring system at Gun Position 15 for fire control system testing. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its 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 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	55.2	2.6	2.5	2.0	1.8	2.0	2.1	2.1	2.3	2.4		75.0
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)	55.2	2.6	2.5	2.0	1.8	2.0	2.1	2.1	2.3	2.4		75.0
Initial Spares												
Total Proc Cost	55.2	2.6	2.5	2.0	1.8	2.0	2.1	2.1	2.3	2.4		75.0
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.

FY06 major project efforts support footprint reduction by providing for the layaway of 125 machines and excess of 15 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 10 machines.

FY 2006 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:

FY06 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.

FY06 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 2005

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 06</u>	<u>FY 07</u>
Rock Island Arsenal Rock Island, Illinois	Layaway of Industrial Facilities (LIF)	7667	1.000	1.147
Watervliet Arsenal Watervliet, New York	Layaway of Industrial Facilities (LIF)	7667	0.816	0.890
	Total		1.816	2.037

Exhibit P-17 Layaway and/or Distribution

Date:

February 2005

Appropriation / Budget / Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles					P-1 Item Nomenclature LAYAWAY OF INDUSTRIAL FACILITIES			
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Project:	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Funding:	2.212	1.384	1.000	1.147	1.009	1.009	1.553	1.597

Title: Layaway of Industrial Facilities (LIF)

Description: This FY 06/07 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 4 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.

Manufacturer (Name and Location) Rock Island Arsenal Rock Island, Illinois	Production Lines being laid away (Include Location) Areas in Building 220 and 208	Production Ends June 2005
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Layaway Cost: 1.000	Other Costs: .000	Annual Maintenance Cost: .000
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Project:	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Funding:	.360	.615	.816	.890	1.021	1.061	.692	.720

Title: Layaway of Industrial Facilities (LIF)

Description: This 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. The Fiscal Year 2007 effort will excess 13 machines and relocate 22 machines within Building 20 to facilitate manufacturing and prepare vacated area for a future machine relocation project. Project will also perform plant restoration on two machine foundations and restore floor areas of the excessed/relocated machines.

Manufacturer (Name and Location) Watervliet Arsenal Watervliet, New York	Production Lines being laid away (Include Location) Areas in Building 20	Production Ends September 2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------

Layaway Cost: .816	Other Costs: .000	Annual Maintenance Cost: .000
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Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	69.1	7.2	6.1	12.6	2.7	3.0	3.2	3.1	3.4	2.6		112.9
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)	69.1	7.2	6.1	12.6	2.7	3.0	3.2	3.1	3.4	2.6		112.9
Initial Spares												
Total Proc Cost	69.1	7.2	6.1	12.6	2.7	3.0	3.2	3.1	3.4	2.6		112.9
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 layaway machine tools, 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:

FY06/07 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-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 2005			
WTCV Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			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			52			49			53			57		
Rock Island Arsenal			1796			2810			1902			2203		
Watervliet Arsenal			827			731			700			715		
Arsenal Support Program Incentive (ASPI)			3454			8990								
Total			6129			12580			2655			2975		

Exhibit P-26 Maintenance of Inactive Industrial FacilitiesAppropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /2/Weapons and other combat vehiclesDate:
February 2005

Inactive Lines at Active Plants		Facility: Hawthorne Army Depot			Contractor: Day & Zimmerman, Hawthorne Corporation			
Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Maintenance Cost								
Recurring Overhead								
Environmental								
Other	52	49	53	57	61	69	77	86

Description: The Fiscal Year (FY) 2006/2007 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 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Maintenance Cost	1796	2810	1902	2203	1917	1953	2228	1872
Recurring Overhead								
Environmental								
Other								

Description: The Fiscal Year (FY) 2006/2007 requirement is for the maintenance of laidaway portions of active weapons production plants and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at Rock Island Arsenal (RIA). Funds are used for maintenance of laidaway weapons production facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling (ST), and special test equipment (STE) being retained as part of approved plant equipment packages (PEPs) which are required to support future production and replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support. Project will also provide for the maintenance of additional equipment and facilities being laidaway in support of Program Budget Decision (PBD) 407 requirements. FY06-521 pieces of equipment, FY07-490 pieces of equipment.

Inactive Lines at Active Plants		Facility: Watervliet Arsenal			Contractor: Not Applicable			
Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Maintenance Cost	827	731	700	715	1106	1004	976	598
Recurring Overhead								
Environmental								
Other								

Description: The Fiscal Year (FY) 2006/2007 requirement is for the maintenance of laidaway portions of active weapons production plants and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at Watervliet Arsenal (WVA). Funds are used for maintenance of laidaway weapons production facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling (ST), and special test equipment (STE) being retained as part of approved plant equipment packages (PEPs) which are required to support future replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support. Project will also provide for the maintenance of additional equipment and facilities being laidaway in support of Program Budget Decision (PBD) 407 requirements. FY06-46 pieces of equipment, FY07-40 pieces of equipment.

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 2005

Inactive Lines at Active Plants		Facility: Arsenal Support Program Incentive (ASPI)			Contractor:			
Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Maintenance Cost	3454	8990						
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 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Maintenance Cost								
Recurring Overhead								
Environmental								
Other								

Description:

		Facility:			Contractor:			
Funding	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Maintenance Cost								
Recurring Overhead								
Environmental								
Other								

Description:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

Appropriation/Budget Activity/Serial No:

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

P-1 Item Nomenclature

SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	22.4	4.6	8.1	3.5	5.2	2.8	5.5	1.3	5.2	4.2		62.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.4	4.6	8.1	3.5	5.2	2.8	5.5	1.3	5.2	4.2		62.8
Initial Spares												
Total Proc Cost	22.4	4.6	8.1	3.5	5.2	2.8	5.5	1.3	5.2	4.2		62.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Justification:

FY 2006/2007 procures M9/M11 Pistol Rails and Close Combat Mission Capability Kits (CCMCK's) for SEP. The M9/M11 Pistol Rails will provide a MIL-STD-1913 interface for mounting laser/white light aiming devices to increase target acquisition capability and situational awareness. The CCMCK is a user installed weapons modification system that allows the Soldier to employ his individual weapon at short range using low velocity marking ammunition. This will enhance pre-deployment preparation and tactics for small arms weapons systems, while precluding the weapon from firing standard service ammunition. In support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), additional items are being procured for the Rapid Fielding Initiative (RFI). The RFI provides new equipment to units deployed. These items include 9mm magazines, Combat Ammo Packs, M203 Day Night Sights and bipods.

FY05 funding does not include \$11.7M for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

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 EQUIPMENT (SOLDIER ENH PROG) (GC0076)			Weapon System Type:			Date: February 2005		
WTCV Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		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	B				669	9914	1	735	10500	0	360	4800	0
Combat Ammo Pack	A				450	4945	0						
Close Combat Mission Capability Kit	B							1624	5262	0	1204	3853	0
Rapid Fielding Initiative		5990			1722			1612			260		
2. ENGINEERING SUPPORT													
M9/M11 Pistol Rails					85			200			200		
Combat Ammo Pack					50								
Rapid Fielding Initiative		884			127			100					
3. INTEGRATED LOGISTICAL SUPPORT													
M9/M11 Pistol Rails					25			70			40		
Rapid Fielding Initiative		150											
4. FIELDING													
M9/M11 Pistol Rails					30			90			100		
Rapid Fielding Initiative		140			50			50					
5. PM-Soldier Weapons Support		916			271			700			618		
Total		8080			3479			5181			2782		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles		Weapon System Type:			P-1 Line Item Nomenclature: SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) (GC0076)					
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	Apr 05	Nov 05	9914	1	YES		
FY 2006	TBS	Option	TACOM, Picatinny, NJ	Dec 05	Feb 06	10500	0	YES		
FY 2007	TBS	Option	TACOM, Picatinny, NJ	Dec 06	Feb 07	4800	0			
Combat Ammo Pack										
FY 2005	TBS	C/FFP	TACOM, Picatinny, NJ	Mar 05	Jul 05	4945	0			
Close Combat Mission Capability Kit										
FY 2006	TBS	Option*	TACOM, Picatinny, NJ	Dec 05	Apr 06	5262	0	YES		
FY 2007	TBS	Option	TACOM, Picatinny, NJ	Dec 06	Apr 07	3853	0			

REMARKS: *FY 2006 Close Combat Mission Capability Kit is a procurement option to a competitive FY 2005 RDT&E contract.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	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	0.0								0.0	0.0		
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.

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

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

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	153.3	22.9	17.9	20.0	3.3							217.4
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)	153.3	22.9	17.9	20.0	3.3							217.4
Initial Spares												
Total Proc Cost	153.3	22.9	17.9	20.0	3.3							217.4
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:

FY2006 / FY2007 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. The WTCV systems included in this requirement are M1 Series Tank and Bradley Fighting Vehicle.