

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
FY 2002 Amended Budget Submission

WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION

June 2001

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,276,746,000, to remain available for obligation until September 30, 2004.

Unit Set Fielding

Notification

The Army is committed to displaying future budget requests in Unit Set Fielding format. We will move toward this type of display beginning with our FY03 budget request.

The display of Unit Set Fielding will define a capability vice a piece of equipment.

Unit Set Fielding Definition

Unit Set Fielding (USF) is the process that modernizes and transforms the Army **by unit sets** primarily at brigade and division levels. The USF schedule synchronizes the fielding of new and upgraded systems, along with supporting enablers, to units in specified windows of generally 6 months per brigade. The intent of this process is to field systems and enablers in sets to provide increased unit operational capability that supports the Army Vision and priorities established by the Army. This approach shifts the focus away from development and fielding of individual systems and to integrated combat capabilities. In order to effectively accomplish USF, the scope of synchronization extends to encompass requirements for manning units, training those units, sustaining those units, and includes installation requirements in support of unit requirements. USF is fully integrated into the Army Transformation Campaign Plan and is clearly the most effective means to synchronize the development and fielding of interim brigades and the objective force of the future.

The Army will work with Congress as we develop Unit Set Fielding displays to assure all required information is included.

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APPROPRIATION SUMMARY	DOLLARS IN THOUSANDS			
APPROPRIATION	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>PAGE</u>
Procurement of W&TCV, Army	1,732,033	2,449,881	2,276,746	3
TOTAL PROCUREMENT PROGRAM	<u>1,732,033</u>	<u>2,449,881</u>	<u>2,276,746</u>	

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APPROPRIATION	Procurement of W&TCV, Army	DOLLARS IN THOUSANDS			
ACTIVITY		FY 2000	FY 2001	FY 2002	PAGE
		<u> </u>	<u> </u>	<u> </u>	
01	Tracked combat vehicles	1,577,635	2,317,349	2,162,507	4
02	Weapons and other combat vehicles	131,660	103,694	77,104	6
03	Spare and repair parts	22,738	28,838	37,135	8
	APPROPRIATION TOTALS	<u>1,732,033</u>	<u>2,449,881</u>	<u>2,276,746</u>	

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

			DOLLARS IN THOUSANDS					
LINE NO	ITEM NOMENCLATURE	ID	FY 2000		FY 2001		FY 2002	
			QTY	COST	QTY	COST	QTY	COST
<i>TRACKED COMBAT VEHICLES</i>								
1	ABRAMS TRNG DEV MOD (GA5208)			2628		5282		5545
2	BRADLEY BASE SUSTAINMENT (G80718) Less: Advance Procurement (PY)	B		(380945)		(427736)		(413099) (-12320)
3	BRADLEY BASE SUSTAINMENT (G80718) Advance Procurement (CY)			380,945		427,736		400,779
4	BRADLEY FVS TRAINING DEVICES (G20900)	A		14438		11987		2609
5	HAB TRAINING DEVICES (G84600)			4845		1189		
6	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	A		14314		13910		8814
7	ABRAMS TANK TRAINING DEVICES (GB1300)	A		8362		10407		11814
8	INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)			22000		928427		662595
9	COMMAND & CONTROL VEHICLE (G84200) Less: Advance Procurement (PY)	B		(44895)		(2548) (-2548)		
10	COMMAND & CONTROL VEHICLE (G84200) Advance Procurement (CY)			44,895		0		
	<i>SUB-ACTIVITY TOTAL</i>			494,975		1,418,761		1,094,837
<i>MODIFICATION OF TRACKED COMBAT VEHICLES</i>								
11	CARRIER, MOD (GB1930)	A		62810		54244		48567
12	FIST VEHICLE (MOD) (GZ2300)			27115		31606		14590
13	BFVS SERIES (MOD) (GZ2400)	A		30185		59325		42262

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

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2000		FY 2001		FY 2002	
			QTY	COST	QTY	COST	QTY	COST
14	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	A		26824		7987		5370
15	FAASV PIP TO FLEET (GA8010)	A		229		5		18501
16	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	A			27	73704	21	58114
17	BREACHER SYSTEM (MOD) (GZ3200)			513				
18	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)			90900		76295		48592
19	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	A		1437				4025
20	M1 ABRAMS TANK (MOD) (GA0700)	A		29645		56476		113485
21	M1A1D RETROFIT (GA0720)					883	55	11647
22	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)				16	58111	25	102152
23	ABRAMS UPGRADE PROGRAM (GA0750)	A		(690081)		(564680)		(653291)
	Less: Advance Procurement (PY)			(-260738)		(-273812)		(-257489)
				429,343		290,868		395,802
24	ABRAMS UPGRADE PROGRAM (GA0750)			374606		172848		194438
	Advance Procurement (CY)							
25	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)			191				
	<i>SUB-ACTIVITY TOTAL</i>			1,073,798		882,352		1,057,545
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>							
26	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)			10		7070		146
27	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			8852		9166		9979
	<i>SUB-ACTIVITY TOTAL</i>			8,862		16,236		10,125
	ACTIVITY TOTAL			1,577,635		2,317,349		2,162,507

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

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2000		FY 2001		FY 2002	
			QTY	COST	QTY	COST	QTY	COST
<i>WEAPONS AND OTHER COMBAT VEHICLES</i>								
28	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	A	4,623	38364	1,306	12335	716	8033
29	MACHINE GUN, 5.56MM (SAW) (G12900)	A	3,698	11741	4,280	16844		
30	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	A	1,517	22883	811	14204	1,510	28826
31	81MM MORTAR (ROLL) (G02200)							3321
32	M16 RIFLE (G14900)	A	12,479	5899	9,296	4749	3,060	1978
33	XM107, CAL. 50, SNIPER RIFLE (G01500)			145	230	3056	150	2149
34	5.56 CARBINE M4 (G14904)	A	8,687	5066	9,978	6134	2,800	2400
35	HOWITZER LT WT 155MM (T) (G01700)							1107
<i>SUB-ACTIVITY TOTAL</i>				84,098		57,322		47,814
<i>MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES</i>								
36	MARK-19 MODIFICATIONS (GB3000)			1971		1796		745
37	M4 CARBINE MODS (GB3007)	A		9393		2481		
38	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)			4139		9865		4450
39	Medium Machine Guns (MODS) (GZ1300)	A				491		746
40	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)			3330		3474		2823
41	M119 MODIFICATIONS (GC0401)	A		4763		4662		4887
42	M16 RIFLE MODS (GZ2800)	A		4331		9504		2100

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

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2000		FY 2001		FY 2002	
			QTY	COST	QTY	COST	QTY	COST
43	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)			2188		779		1261
	<i>SUB-ACTIVITY TOTAL</i>			30,115		33,052		17,012
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>							
44	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)			1368		1171		1275
45	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			7038		5105		6430
46	INDUSTRIAL PREPAREDNESS (GC0075)			3078		3571		4270
47	SMALL ARMS (SOLDIER ENH PROG) (GC0076)			5963		3473		303
	<i>SUB-ACTIVITY TOTAL</i>			17,447		13,320		12,278
	ACTIVITY TOTAL			131,660		103,694		77,104

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APPROPRIATION Procurement of W&TCV, Army ACTIVITY 03 Spare and repair parts

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS									
			FY 2000		FY 2001		FY 2002					
			QTY	COST	QTY	COST	QTY	COST				
	<i>SPARES AND REPAIR PARTS</i>											
48	SPARES AND REPAIR PARTS (WTCV) (GE0150)			22738		28838		37135				
	<i>SUB-ACTIVITY TOTAL</i>											
				<u>22,738</u>		<u>28,838</u>		<u>37,135</u>				
	ACTIVITY TOTAL			<u>22,738</u>		<u>28,838</u>		<u>37,135</u>				
	APPROPRIATION TOTAL			<u>1,732,033</u>		<u>2,449,881</u>		<u>2,276,746</u>				

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G14904	34	6	5.56 CARBINE M4 (G14904)
G02200	31	6	81MM MORTAR (ROLL) (G02200)
GB1300	7	4	ABRAMS TANK TRAINING DEVICES (GB1300)
GA5208	1	4	ABRAMS TRNG DEV MOD (GA5208)
GA0750	23	5	ABRAMS UPGRADE PROGRAM (GA0750)
GA0750	24	5	ABRAMS UPGRADE PROGRAM (GA0750)
G13000	28	6	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)
GZ3000	19	5	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)
GZ2400	13	4	BFVS SERIES (MOD) (GZ2400)
G80718	2	4	BRADLEY BASE SUSTAINMENT (G80718)
G80718	3	4	BRADLEY BASE SUSTAINMENT (G80718)
G20900	4	4	BRADLEY FVS TRAINING DEVICES (G20900)
GZ2500	6	4	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)
GZ3200	17	5	BREACHER SYSTEM (MOD) (GZ3200)
GB1930	11	4	CARRIER, MOD (GB1930)
G84200	9	4	COMMAND & CONTROL VEHICLE (G84200)
G84200	10	4	COMMAND & CONTROL VEHICLE (G84200)
GA8010	15	5	FAASV PIP TO FLEET (GA8010)
GZ2300	12	4	FIST VEHICLE (MOD) (GZ2300)
G13400	30	6	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)
G84600	5	4	HAB TRAINING DEVICES (G84600)
GZ3250	18	5	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)
G01700	35	6	HOWITZER LT WT 155MM (T) (G01700)
GA0400	14	4	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)
GA0430	40	6	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)
GA0570	16	5	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)
GC0075	46	7	INDUSTRIAL PREPAREDNESS (GC0075)
G85100	8	4	INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)
GL3100	26	5	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)
GL3200	44	7	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)
G80718	2	4	Less: Advance Procurement (PY)
G84200	9	4	Less: Advance Procurement (PY)
GA0750	23	5	Less: Advance Procurement (PY)
GA0700	20	5	M1 ABRAMS TANK (MOD) (GA0700)
GC0401	41	6	M119 MODIFICATIONS (GC0401)

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G14900	32	6	M16 RIFLE (G14900)
GZ2800	42	6	M16 RIFLE MODS (GZ2800)
GA0720	21	5	M1A1D RETROFIT (GA0720)
GB3007	37	6	M4 CARBINE MODS (GB3007)
G12900	29	6	MACHINE GUN, 5.56MM (SAW) (G12900)
GB3000	36	6	MARK-19 MODIFICATIONS (GB3000)
GZ1300	39	6	Medium Machine Guns (MODS) (GZ1300)
GA0925	25	5	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)
GC0925	43	6	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)
GA0050	27	5	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)
GC0050	45	7	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)
GC0076	47	7	SMALL ARMS (SOLDIER ENH PROG) (GC0076)
GE0150	48	8	SPARES AND REPAIR PARTS (WTCV) (GE0150)
GZ1290	38	6	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)
GA0730	22	5	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)
G01500	33	6	XM107, CAL. 50, SNIPER RIFLE (G01500)

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G01700	35	6	HOWITZER LT WT 155MM (T) (G01700)
G02200	31	6	81MM MORTAR (ROLL) (G02200)
G12900	29	6	MACHINE GUN, 5.56MM (SAW) (G12900)
G13000	28	6	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)
G13400	30	6	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)
G14900	32	6	M16 RIFLE (G14900)
G14904	34	6	5.56 CARBINE M4 (G14904)
G20900	4	4	BRADLEY FVS TRAINING DEVICES (G20900)
G80718	2	4	BRADLEY BASE SUSTAINMENT (G80718)
G80718	2	4	Less: Advance Procurement (PY)
G80718	3	4	BRADLEY BASE SUSTAINMENT (G80718)
G84200	9	4	COMMAND & CONTROL VEHICLE (G84200)
G84200	9	4	Less: Advance Procurement (PY)
G84200	10	4	COMMAND & CONTROL VEHICLE (G84200)
G84600	5	4	HAB TRAINING DEVICES (G84600)
G85100	8	4	INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)
GA0050	27	5	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)
GA0400	14	4	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)
GA0430	40	6	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)
GA0570	16	5	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)
GA0700	20	5	M1 ABRAMS TANK (MOD) (GA0700)
GA0720	21	5	M1A1D RETROFIT (GA0720)
GA0730	22	5	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)
GA0750	23	5	ABRAMS UPGRADE PROGRAM (GA0750)
GA0750	23	5	Less: Advance Procurement (PY)
GA0750	24	5	ABRAMS UPGRADE PROGRAM (GA0750)
GA0925	25	5	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)
GA5208	1	4	ABRAMS TRNG DEV MOD (GA5208)
GA8010	15	5	FAASV PIP TO FLEET (GA8010)
GB1300	7	4	ABRAMS TANK TRAINING DEVICES (GB1300)
GB1930	11	4	CARRIER, MOD (GB1930)
GB3000	36	6	MARK-19 MODIFICATIONS (GB3000)
GB3007	37	6	M4 CARBINE MODS (GB3007)
GC0050	45	7	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)

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GC0075	46	7	INDUSTRIAL PREPAREDNESS (GC0075)
GC0076	47	7	SMALL ARMS (SOLDIER ENH PROG) (GC0076)
GC0401	41	6	M119 MODIFICATIONS (GC0401)
GC0925	43	6	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)
GE0150	48	8	SPARES AND REPAIR PARTS (WTCV) (GE0150)
GL3100	26	5	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)
GL3200	44	7	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)
GZ1290	38	6	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)
GZ1300	39	6	Medium Machine Guns (MODS) (GZ1300)
GZ2300	12	4	FIST VEHICLE (MOD) (GZ2300)
GZ2400	13	4	BFVS SERIES (MOD) (GZ2400)
GZ2500	6	4	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)
GZ2800	42	6	M16 RIFLE MODS (GZ2800)
GZ3000	19	5	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)
GZ3200	17	5	BREACHER SYSTEM (MOD) (GZ3200)
GZ3250	18	5	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)

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18	GZ3250	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD)	133
19	GZ3000	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD)	139
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Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	23.5	8.5	2.6	5.3	5.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.5	8.5	2.6	5.3	5.5							
Initial Spares												
Total Proc Cost	23.5	8.5	2.6	5.3	5.5							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

This program meets needs validated by the Abrams tank user community. Degradation of tank training will occur if these modifications are delayed or deleted. The Conduct of Fire Trainer (COFT) Modifications are converting obsolete M60A3 trainers to M1A1 tank family trainers and are for National Guard units only. The other trainers detailed here-in are for units at FORSCOM, USAREUR, TRADOC and Army Reserve units. All of these modifications represent significantly less costly alternatives to new procurements of similar equipment.

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

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Conduct of Fire Trnr (COFT) & M1A1D Conv.											
1-97-05-4526	Operational	12.1	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8
M1A2 AGTS / Sep Modification											
1-97-05-4527	Operational	0.0	0.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Tank Driver Trainer M1A2 SEP Upgrade											
1-97-05-4528	Operational	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
CCTT SEP Modification											
1-97-05-4529	Operational	0.1	0.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.7
MTS SEP Modification											
1-97-05-4530	Operational	3.1	3.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	7.8
Platoon COFT(PCOFT) Upgr [Mod 6]											
1-01-05-0009	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		18.7	5.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	29.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Conduct of Fire Trnr (COFT) & M1A1D Conv. [MOD 1] 1-97-05-4526

MODELS OF SYSTEM AFFECTED: M1 & M1A1 COFTs

DESCRIPTION/JUSTIFICATION:

The Image Generator (IG) and computer subsystems in the COFTs are of early 1980's design. Sustainability is a major issue as repair and replacement parts are becoming more expensive or entirely unavailable on the commercial market. Likewise, the older software designed to run on these components is difficult to sustain. Replacing the IG and computer with new technology will position the COFT fleet to support tank units and institutions beyond the year 2000.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contractor Test & Evaluation.....PLANNED: 4Q99ACCOMPLISHED: 4Q00
 Initial Operational Test & Evaluation...PLANNED: 1Q01ACCOMPLISHED: 1Q01

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	15	4				4														
Outputs	12					3		2												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 18 Months
 Contract Dates: FY 2002 MAR 99 FY 2003 MAR 00 FY 2004 MAR 01
 Delivery Date: FY 2002 SEP 00 FY 2003 SEP 01 FY 2004 SEP 02

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Conduct of Fire Trnr (COFT) & M1A1D Conv. [MOD 1] 1-97-05-4526

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	15	2.6	4	0.7	4	1.0														4.3
Installation Kits		9.5																		9.5
Installation Kits, N / R																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		12.1		0.7		1.0		0.0		0.0		0.0		0.0		0.0		0.0		13.8

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M1A2 AGTS / Sep Modification [MOD 2] 1-97-05-4527

MODELS OF SYSTEM AFFECTED: M1A2 SEP Advanced Gunnery Training System (AGTS).

DESCRIPTION/JUSTIFICATION:

The existing M1A2 advanced Gunnery Training Simulators will be modified to mimic the most current SEP (Systems Enhancement Program) changes to the A2 fleet. Modifying existing trainers is more cost effective than procuring new trainers. Note that delivery and installation are effectively simultaneous so no separate delivery schedule is shown.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contractor Test & Evaluation PLANNED: 1Q03 ... ACCOMPLISHED:
 Initial Operational Test & Evaluation ... PLANNED: 2Q03 ... ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs						2																

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months
 Contract Dates: FY 2002 FY 2003 FY 2004 JAN 01
 Delivery Date: FY 2002 FY 2003 FY 2004 JAN 03

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): M1A2 AGTS / Sep Modification [MOD 2] 1-97-05-4527

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits		0.0			2	1.0														1.0
Installation Kits, Nonrecurring				0.9																0.9
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.9		1.0		0.0		0.0		0.0		0.0		0.0		0.0		1.9

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Tank Driver Trainer M1A2 SEP Upgrade [MOD 3] 1-97-05-4528

MODELS OF SYSTEM AFFECTED: M1A1 Tank Driver Trainer

DESCRIPTION/JUSTIFICATION:

The Tank Driver Trainer (TDT) simulates actual tank performance for beginner and transitioning drivers. It provides a range of motion and simulated environments, terrain and situations which are difficult or impossible for the driver to experience in normal training or operations. The M1A2 driver's compartment and tasks are significantly different from the M1A1. This project upgrades existing M1A1 Tank Driver Trainers at the Armor School to match student enrollment as more M1A2s enter the field. Note that delivery and installation are effectively simultaneous so no separate delivery schedule is shown.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contractor Test & Evaluation PLANNED: 3Q00 ACCOMPLISHED: 3Q00
 Initial Operational Test & Evaluation ... PLANNED: 4Q00 ACCOMPLISHED: 4Q00

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	2			1																
Outputs	1				1															

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 JUN 99 FY 2003 FY 2004
 Delivery Date: FY 2002 DEC 00 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Tank Driver Trainer M1A2 SEP Upgrade [MOD 3] 1-97-05-4528

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity	3	1.5																			1.5
Installation Kits		1.9																			1.9
Installation Kits, Nonrecurring Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits																					
FY 2001 -- Kits																					
FY 2002 Equip -- Kits																					
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 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		3.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		3.4	

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: CCTT SEP Modification [MOD 4] 1-97-05-4529

MODELS OF SYSTEM AFFECTED: Close Combat Tactical Trainer (CCTT)

DESCRIPTION/JUSTIFICATION:

The existing M1A2 Close Combat Tactical Trainer (CCTT) modules will be modified to represent the most recent M1A2 System Enhancement Package (SEP) changes. This Mod will insure that as M1A2 SEP tanks are fielded there are sufficient CCTTs for the receiving units to conduct simulated training exercises. Note that delivery and installation are effectively simultaneous so there is no separate delivery schedule shown.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contractor Test & Evaluation PLANNED: 3Q01 ACCOMPLISHED:
 Initial Operational Test & Evaluation ... PLANNED: 4Q01 ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals					14															
Inputs																				
Outputs								14												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 15 Months
 Contract Dates: FY 2002 MAR 01 FY 2003 MAR 02 FY 2004 MAR 03
 Delivery Date: FY 2002 DEC 02 FY 2003 DEC 03 FY 2004 DEC 04

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): CCTT SEP Modification [MOD 4] 1-97-05-4529

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity					14	2.2														2.2
Installation Kits																				
Installation Kits, Nonrecurring	0.1		0.4																	0.5
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.1		0.4		2.2		0.0		0.0		0.0		0.0		0.0		0.0		2.7

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: MTS SEP Modification [MOD 5] 1-97-05-4530

MODELS OF SYSTEM AFFECTED: M1A2 Maintenance Training System (MTS) Maintenance Simulators

DESCRIPTION/JUSTIFICATION:

The existing M1A2 Maintenance Trainers will be modified so that they represent the most recent System Enhancement Package (SEP) changes to fielded M1A2 tanks. This modification will insure that as Abrams M1A2 SEP tanks are fielded there are sufficient MTSS for the receiving units to conduct simulated training exercises. Note that delivery and installation are effectively simultaneous so a separate delivery schedule is not shown.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contractor Test & Evaluation PLANNED: 3Q01 ACCOMPLISHED:
 Initial Operational Test & Evaluation PLANNED: 4Q01 ACCOMPLISHED:
 First Unit Equipped (FUE) PLANNED: 2Q03 ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs				2																
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 MAR 99 FY 2003 JAN 00 FY 2004 JAN 01
 Delivery Date: FY 2002 FY 2003 FY 2004 SEP 01

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): MTS SEP Modification [MOD 5] 1-97-05-4530

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits			2	3.3	1	1.4														4.7
Installation Kits, Nonrecurring Equipment	3.1																			3.1
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		3.1		3.3		1.4		0.0		0.0		0.0		0.0		0.0		0.0		7.8

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Platoon COFT(PCOFT) Upgr [Mod 6] [MOD 6] 1-01-05-0009

MODELS OF SYSTEM AFFECTED: M1A1 PCOFTS

DESCRIPTION/JUSTIFICATION:

The Image Generator (IG) and computer subsystems in the PCOFT (Platoon Conduct of Fire Trainer) are of late 1980's design. Sustainability is a major issue as repair and replacement parts become more expensive or entirely unavailable on the commercial market. Likewise, the software designed to run on these components is difficult to sustain. Replacing the IG and computer with new technology will position the PCOFT fleet to support tank units and institutions beyond FY01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contractor Test & Evaluation.....PLANNED: 4Q04.....ACCOMPLISHED:
Initial Operational Test & Evaluation ...PLANNED: 1Q05.....ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 18 Months
 Contract Dates: FY 2002 MAR 06 FY 2003 MAR 07 FY 2004 MAR 08
 Delivery Date: FY 2002 DEC 07 FY 2003 DEC 08 FY 2004 DEC 09

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Platoon COFT(PCOFT) Upgr [Mod 6] [MOD 6] 1-01-05-0009

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.0		0.0		0.0		0.0		0.0		0.0

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

BRADLEY BASE SUSTAINMENT (G80718)

Program Elements for Code B Items:

Code:
L

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		126	140	157	142							
Gross Cost	1067.9	361.6	380.9	427.7	413.1							
Less PY Adv Proc					12.3							
Plus CY Adv Proc				19.8	2.7							
Net Proc (P-1)	1067.9	361.6	380.9	447.6	403.5							
Initial Spares	7.4	7.1	9.1	11.4	10.7							
Total Proc Cost	1075.3	368.7	390.1	459.0	414.2							
Flyaway U/C												
Wpn Sys Proc U/C		2.9	2.7	2.9	2.8							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY97-00 provides four years of A3 LRIP vehicles. FY01 marks the first full rate production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank. The system supports the Legacy transition path of the Transformation Campaign Plan.

Justification:

JUSTIFICATION: The FY02 Budget will provide the second year of full rate of production for the A3 upgrade program. The A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

Quantities are all A0-A2's in FY96 and prior; a mix of A0-A2 Linebackers and A3's in FY97; a mix of A0-A2ODS and A3's in FY98-FY01; and all A3's thereafter.

A three year multi-year contract is planned for FY's 01-03.

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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)		80720	60	1345	70771	48	1474	1651					
BRADLEY BASE SUSTAINMENT (A3)		309357	80	3867	388198	109	3561	412540	142	2905			
Total		390077			458969			414191					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

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

Program Elements for Code B Items:

Code:
L

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	590	53	60	48								
Gross Cost	775.9	91.5	80.7	70.8	1.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	775.9	91.5	80.7	70.8	1.7							
Initial Spares												
Total Proc Cost	775.9	91.5	80.7	70.8	1.7							
Flyaway U/C												
Wpn Sys Proc U/C		1.7	1.3	1.5								

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles.

Quantities are A0-A2's in FY96 and prior, A0-A2 Linebackers FY97, and A0-A2ODS's in FY98-01.

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

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: June 2001			
WTCV Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
National Guard														
Vehicle			50166	60	836	40675	48	847						
Other GFE (New)			7570	60	126	5245	48	109						
Other GFE (Reman)			2971	60	50	2719	48	57						
Contractor Engineering			9273			9264								
National Guard Fielding			7536			6743								
National Guard Program			77516			64646								
BFVS Fielding			3204			6125			1651					
Total			80720			70771			1651					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Vehicle										
FY 2000	UDLP York PA	SS/FFP	TACOM	AUG-00	AUG-01	60	836	YES		
FY 2001	UDLP York PA	SS/FFP	TACOM	APR-01	NOV-02	48	847	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	53	73	80	109	142							
Gross Cost	292.0	270.1	300.2	357.0	411.4							
Less PY Adv Proc					12.3							
Plus CY Adv Proc				19.8	2.7							
Net Proc (P-1)	292.0	270.1	300.2	376.8	401.8							
Initial Spares	7.4	7.1	9.1	11.4	10.7							
Total Proc Cost	299.4	277.2	309.4	388.2	412.5							
Flyaway U/C												
Wpn Sys Proc U/C		3.7	3.8	3.5	2.8							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY97-00 provides the first four years of A3 LRIP vehicles. FY01 marks the first full rate production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank. The system supports the Legacy transition path of the Transformation Campaign Plan.

Justification:

JUSTIFICATION: The FY02 Budget will provide the second full rate production year for the A3 upgrade program. The A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

A three year multi-year contract is planned for FY's 01-03.

Exhibit P-40C, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

BRADLEY BASE SUSTAINMENT (M2A3) (G80717)

Program Elements for Code B Items:

Code:

L

Other Related Program Elements:

A3 Advanced Procurement Detail (in Mils):

FY	2001	2002	2003	2004	2005	2006
FY2001 for FY2002	12.320					
FY2001 for FY2003	7.503					
FY2002		(12.320)				
FY2002 for FY2003		2.681				
FY2003			(10.184)			
FY2004 for FY2005				11.657		
FY2004 for FY2006				3.003		
FY2005					(11.657)	
FY2005 for FY2006					0.938	
FY2006						(3.941)

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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		157157	80	1964	179863	109	1650	213859	142	1506			
IBAS		29925	80	375	35329	109	324	44844	142	316			
FLIR		32020	80	400	38033	109	349	45715	142	322			
Other GFE		9481	80	119	10126	109	93	19374	142	136			
Pre Mod Depot Maint		1007	80	13	2262	109	21	3250	142	23			
Sub total		229590			265613			327042					
Other Production Cost													
Engineering - Government		13225			18178			17162					
Engineering - Contractor		33567			43725			40114					
Project Management Administration		2291			2718			2764					
Reimbursable Matrix Support		3498			3086			3288					
Test and Evaluation		2655			3208			6964					
Sub total		55236			70915			70292					
Peculiar Support Equipment		9153			8784			8603					
Fielding		6246			4718			5511					
ODS for the National guard					6935								
GROSS P-1 END COST		70635			91352			84406					
LESS: PRIOR YEAR ADV PROC								12320					
NET P-1 FULL FUNDING COST													
PLUS: P-1 CY ADV PROC					19823			2681					
OTHER NON P-1 COSTS													
INITIAL SPARES		9132			11410			10731					
MODS													
TOTAL		9132			31233			13412					
Total		309357			388198			412540					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Vehicle										
FY 2000	UDLP YORK PA	SS/FFP	TACOM	AUG 00	JUL 01	80	1964	YES		
FY 2001	UDLP YORK PA	MY/FFP	TACOM	APR 01	JUL 02	109	1650	YES		
FY 2002	UDLP YORK PA	MY/FFP	TACOM	MAR 02	JUL 03	142	1506	YES		
IBAS										
FY 2000	RTIS/DRS DALLAS TX/ CAL	C/FFP	AMCOM	JAN 00	FEB 01	80	375	YES		
FY 2001	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	APR 01	FEB 02	109	324	YES		
FY 2002	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	JAN 02	FEB 03	142	316	YES		
FLIR										
FY 2000	RTIS DALLAS TX	MY/FFP	CECOM	JAN 00	DEC 00	80	400	YES		
FY 2001	RTIS DALLAS TX	MY/FFP	CECOM	JAN 01	DEC 01	109	349	YES		
FY 2002	RTIS DALLAS TX	MY/FFP	CECOM	JAN 02	DEC 02	142	322	YES		

REMARKS: Multi year procurements (FY 01-03) for Vehicle and IBAS
Multi year procurement (FY 00-01) for FLIR

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

BRADLEY BASE SUSTAINMENT(Adv Proc) (G80718)

Program Elements for Code B Items:

Code:
L

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc				19.8	2.7							
Net Proc (P-1)				19.8	2.7							
Initial Spares												
Total Proc Cost				19.8	2.7							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Advance Procurement for EOQ material.
The system supports the Legacy transition path of the Transformation Campaign Plan.

Justification:

EOQ funding supports more economical buys than can be achieved with single year procurements.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:
April 2001

First System Completion Date:
February 2002

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System
BRADLEY BASE SUSTAINMENT

(S in Millions)

	PTL (mos)	When Rqd (mos)	Pr Yrs	L FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total
Economic Order Quantity			53	73	80	109	142							457
1. Vehicle Components	17					11.2								11.2
2. IBAS	13					8.1	2.7							10.8
3. PLGR	12					0.6								0.6
Total Advance Procurement			0.0	0.0	0.0	19.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	22.5

Number of months refers to integration of components, not to EOQ material.

Advance Procurement Requirements Analysis-Funding (P10B)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

BRADLEY BASE SUSTAINMENT

(\$ in Millions)

	PLT (mos)	Quantity Per Assembly	Unit Cost	2002			2003		
				Qty	Contract Forecast Date	Total Cost Request	Qty	Contract Forecast Date	Total Cost Request
1. Vehicle Components	17	1			Mar 02				
2. IBAS	13	1			Jan 02	2.7			
3. PLGR	12	1			Mar 02				
Total Advance Procurement						2.7			0.0

Quantity and unit cost are not applicable. Funding is for EOQ material, not full up components.

Advance Procurement Requirements Analysis-Funding (P10C)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

BRADLEY BASE SUSTAINMENT

(\$ in Millions)

	Pr Yrs	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total
Proposal w/o AP												
Then Year Cost				35	157							192
Constant Year Cost				34	152							186
Present Value				34	144							178
AP Proposal												
Then Year Cost				33	144							177
Constant Year Cost				32	139							172
Present Value				32	132							164
AP Savings (Difference)												
Then Year Cost				-2	-13							-15
Constant Year Cost				-2	-13							-15
Present Value				-2	-12							-14

There are currently no proposals; these are estimates.

Advance Procurement Requirements Analysis-Execution (P10D)

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

BRADLEY BASE SUSTAINMENT

(\$ in Millions)

	PTL (mos)	L 2000					2001					2002		2003	
		Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
Economic Order Quantity															
1. Vehicle Components	17					109	Apr 01		11.2			Mar 02			
2. IBAS	13					109	Apr 01		8.1			Jan 02			
3. PLGR	12					109	Apr 01		0.6			Mar 02			
Total Advance Procurement									19.8	0.0					

Planned advance procurement. No advance procurement history.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

BRADLEY FVS TRAINING DEVICES (G20900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	225.5	12.2	14.4	12.0	2.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	225.5	12.2	14.4	12.0	2.6							
Initial Spares	1.8											
Total Proc Cost	227.3	12.2	14.4	12.0	2.6							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Bradley Advanced Training System (BATS) is a crew station simulator for the BFVS A3 turret. It is used for precision gunnery training and comes with an Instructor/Operator's station and a remote monitoring station. The basis of issue for the gunnery trainer is one per mechanized infantry battalion, four at the USAARMS and six at the USAIS. Total requirement is 24. Close Combat Tactical Trainer (CCTT) requires an update to the A3 configuration. A total of 77 systems are required. This effort includes the design, development and testing of the new A3 components for the base CCTT simulator.

Bradley Desktop Trainers (BDT) are computer workstations running the actual M2A3 software. It is equipped with touch-screen monitor, commander's handstation and data entry tool. This trainer facilitates the new equipment training on the commander's tactical display and digital command and control software.

The M2A3 Maintenance Trainer will be used at the USAARMS, Ft Knox to train the maintenance personnel. The system will consist of a Hands-on Turret Trainer (HOTT) and a computer workstation for classroom training. It is similar to the trainers in use for the Abrams tank system. Basis of issue is 6 HOTT and 12 workstations for US Army Armor School.

Through Sight Video is a new device, leveraging technology to reduce the size and increase the reliability over the legacy device. It will be common with M1A2 Abrams and utilize the unique architecture of the M2A3 to provide video tapes of the Commander's and gunner's view for post-training review and assessment. BOIP is 4/BN. Total Army requirement is 72.

The Bradley is a Legacy system in support of the Army Transformation Campaign Plan.

Justification:

The M2A3 is a significant departure from the earlier versions of the Bradley. The digital architecture facilitates embedded test and diagnostics and enhances crew efficiency. As a result, the maintenance concept is radically different from the M2A2ODS.

Exhibit P-40C, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

BRADLEY FVS TRAINING DEVICES (G20900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

The vehicle fire control system and inherent crew duties are also significantly different. The increased cost of actual vehicle hardware mandates the increased use of Trng Aids, Devices and Simulators. The requirement for these devices is the result of a detailed training analysis and they are a key part of the Training Support Plan for the M2A3. Without these devices, additional vehicles would be required in TRADOC and additional OPTEMPO funding would be required for units.

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 FVS TRAINING DEVICES (G20900)			Weapon System Type:			Date: June 2001			
WTCV Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			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 Advanced Training System (B ATS)		1	9050	8	1131	3087	3	1029						
Bradley Desktop Trainer (BDT)		2	157	7	22									
Maintenance Trainers		3	5231	2	2616									
CCTT Simulator Engineering		4				8900			2609					
Total			14438			11987			2609					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
BRADLEY FVS TRAINING DEVICES (G20900)

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
Bradley Advanced Training System (B ATS)										
FY 2000	United Defense (LP) Orlando, FL	FFP	TACOM	Jun 01	Sep02	8	1131	yes		
FY 2001	United Defense (LP) Orlando, FL	FFP	TACOM	Jun 01	Sep02	3	1029	yes		
Bradley Desktop Trainer (BDT)										
FY 2000	United Defense (LP) Orlando, FL	FFP	TACOM	Mar 01	Jun 01	7	22	yes		
Maintenance Trainers										
FY 2000	Research Triangle Institue Raleigh, NC	FFP	STRICOM-Orlando	Nov 00	Jan 02	2	2616	yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

HAB TRAINING DEVICES (G84600)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost		0.4	4.8	1.2								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		0.4	4.8	1.2								
Initial Spares												
Total Proc Cost		0.4	4.8	1.2								
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Wolverine (Heavy Assault Bridge) Training Aids, Devices, Simulations, and Simulators (TADSS) enable the training capability for the Army's digitized, Wolverine equipped battalions. Wolverine TADSS provides a training capability for operators, maintainers, and crews. This revised approach to training enables institutional, unit, and collective training. The revised program fields Wolverine TADSS to support unit training capability concurrent with initial (FY01) vehicle fieldings for operators and maintainers.

Justification:

Wolverine TADSS optimizes training budgets, revised APO's, leverages existing devices and minimizes the Operation and Support (O&S) costs on on-vehicle training.

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: HAB TRAINING DEVICES (G84600)			Weapon System Type:			Date: June 2001			
WTCV Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Trainer/Simulator Manufacturing														
Maintenance Trainers					200	2	100							
Mission/Driver Trainers			4114	2	2057									
Digital Display Table-top Trainer					410	4	103							
SUBTOTAL			4114			610								
Contract Engineering							60							
Project Management			731				344							
CLS Support							175							
TOTAL			4845			1189								
Total			4845			1189								

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES		Weapon System Type:			P-1 Line Item Nomenclature: HAB TRAINING DEVICES (G84600)					
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
Maintenance Trainers FY 2001	TBD TBD	C-FFP	STRICOM	Jun-01	Jan-02	2	100	NO	N/A	Apr 01
Mission/Driver Trainers FY 2000	LMIS Orlando, FL	C-FFP	STRICOM	Jun-01	Oct-01	2	2057	NO	N/A	Apr 01
Digital Display Table-top Trainer FY 2001	Oasis Engineering Auburn Hills, MI	C-FFP	TACOM	Mar-01	Jul-01	4	103	NO	N/A	Feb 01

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	11.2	2.5	14.3	13.9	8.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.2	2.5	14.3	13.9	8.8							
Initial Spares												
Total Proc Cost	11.2	2.5	14.3	13.9	8.8							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Upgrades to the BFVS Training Devices are required every time the vehicle software changes. Current vehicle plans call for an annual software update. These changes will effect the functionality of the Bradley Advanced Training System (BATS), Bradley Desktop Trainer (BDT), Precision Gunnery System (PGS) and the M2A3 Maintenance Trainers..

1. The introduction of the A3 requires a modification kit for PGS to interface to the digital architecture. A total of 256 mod kits are required for the Active Army.
2. The UCFT modifications are designed to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It will also include installation of the Applique computer system in order to completely match the vehicle. It is following the same program for Abrams UCFTs. A total of 120 UCFTs will be modified in both Active and Reserve Components. This will insure the UCFT will remain a viable Training Device as long as the M2A2ODS is in the inventory.
3. The Close Combat Tactical Trainer will be modified to support the Bradley A3. This effort will procure M2A3 modification kits for the CCTT M2A2 simulators. The CCTT Simulator is a modular training device designed to support multiple configurations of the BFVS. It currently supports M2A2 and M2A2ODS. This kit will allow training on the M2A3. It is imperative that the CCTT simulation systems keep pace with the Army's modernization initiatives. A total of 77 A3 mod kits will be procured.

The Bradley is a Legacy system in support of the Army Transformation Campaign Plan.

Justification:

This program meets the requirements as stated in the Bradley Operational Requirements Document. 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:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Software Upgrades											
1-96-05-4513	Operational	13.5	2.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	17.4
Precision Gunnery System											
1-99-05-4513	Operational	7.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Unit Conduct of Fire Trainer (UCOFT) Mods											
1-99-05-4566	Operational	1.6	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
MILES Mods											
1-99-05-4569	Operational	4.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Close Combat Tactical Trainer											
1-01-05-0010	Operational	0.0	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	8.4
Totals		26.6	14.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	49.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Software Upgrades [MOD 1] 1-96-05-4513

MODELS OF SYSTEM AFFECTED: BFVS COFTs, Precision Gunnery System, BATS, Bradley Desktop Trainer, Maintenance Training System

DESCRIPTION/JUSTIFICATION:

Software updates will be required for training devices. As a system is upgraded/modified, software on the training device must be modified to ensure adequate training for the soldier. Planned upgrades include incorporation of the latest vehicle, FBCB2 and CCTT software packages into the BFVS Training Devices.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review NA
 Critical Design Review NA
 Contractor Test & Evaluation NA
 Initial Operational Test and Evaluation NA
 IPR Production Decision NA
 TDP Available NA

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 2Q02 FY 2003 2Q03 FY 2004
 Delivery Date: FY 2002 2Q03 FY 2003 2Q04 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Software Upgrades [MOD 1] 1-96-05-4513

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Software Mods - A2		11.2																		11.2
Software Mods - A3		2.3		2.4		1.5														6.2
Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		13.5		2.4		1.5		0.0		0.0		0.0		0.0		0.0		0.0		17.4

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Precision Gunnery System [MOD 2] 1-99-05-4513

MODELS OF SYSTEM AFFECTED: BFVS Precision Gunnery System

DESCRIPTION/JUSTIFICATION:

The introduction of the A3 requires a modification kit for PGS to interface to the digital architecture. A total of 256 mod kits are required for the Active Army.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review NA
 Critical Design Review NA
 Contractor Test & Evaluation NA
 Initial Operational Test and Evaluation NA
 IPR Production Decision NA
 TDP Available NA

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals	7	7	7	7	25	25	25	25												
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 11 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 1Q02 FY 2003 FY 2004
 Delivery Date: FY 2002 1Q03 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Precision Gunnery System [MOD 2] 1-99-05-4513

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits	128	6.6	133	4.4																11.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support		0.6																		0.6
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		7.2		4.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		11.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Unit Conduct of Fire Trainer (UCOFT) Mods [MOD 3] 1-99-05-4566

MODELS OF SYSTEM AFFECTED: UCOFT and COFT

DESCRIPTION/JUSTIFICATION:

The UCOFT modifications are designed to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It will also include installation of the Applique computer system in order to completely match the vehicle. It is following the same program for Abrams UCOFTs. A total of 120 UCOFTs will be modified in both Active and Reserve Components. There will be significant Operations and Support Cost savings for STRICOM Life-Cycle Support. This will insure the UCOFT will remain a viable Training Device as long as the M2A2ODS is in the inventory. This program includes the refurbishment of 14 U-COFTS for the Engineering Squad Vehicle.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review NA
 Critical Design Review NA
 Contractor Test & Evaluation NA
 Initial Operational Test and Evaluation NA
 IPR Production Decision NA
 TDP Available NA

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	10							10												
Outputs	10							10												

	FY 2006				FY 2007				FY 2008				FY 2009				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																	Complete	
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 FY 2003 4Q03 FY 2004
 Delivery Date: FY 2002 FY 2003 4Q04 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Unit Conduct of Fire Trainer (UCOFT) Mods [MOD 3] 1-99-05-4566

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
UCOFT	10	1.6																		1.6
UCOFT Refurb ODS Engr Squad					10	3.0														3.0
RSRV Comp. Equipt ODS Mods			10	3.0																3.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		1.6		3.0		3.0		0.0		0.0		0.0		0.0		0.0		0.0		7.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: MILES Mods [MOD 4] 1-99-05-4569

MODELS OF SYSTEM AFFECTED: BFVS MILES

DESCRIPTION/JUSTIFICATION:

Procurement of the Superelevation Switchbox will continue. This component enables the army standard MILES system to interface with the M2A2ODS. Total BOIP is approximately 900 kits for those units equipped with the M2A2ODS. This program now includes 150 kits to support the Engineering Squad Vehicle.

The BFVS SAWE/MILES hardware at the National Training Center must be modified to operate on the M2A3. Initial funding in FY00 provides minimum quantity to support the Division Capstone Exercise - DCX by Mar 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review NA
 Critical Design Review NA
 Contractor Test & Evaluation NA
 Initial Operational Test and Evaluation NA
 IPR Production Decision NA
 TDP Available NA

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	100	50	50	112	112	113	113													
Outputs	100	50	50	112	112	113	113													

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 14 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2002 FY 2003 1Q04 FY 2004
 Delivery Date: FY 2002 FY 2003 3Q04 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): MILES Mods [MOD 4] 1-99-05-4569

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
MILES Superelevation box	420	0.5			150	0.2														0.7
MILES VIS Adapter	135	0.1																		0.1
MILES TOW Bracket		0.4																		0.4
SAWE/MILES	53	3.3																		3.3
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		4.3		0.0		0.2		0.0		0.0		0.0		0.0		0.0		0.0		4.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Close Combat Tactical Trainer [MOD 5] 1-01-05-0010

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits			10	4.2	18	4.2														8.4
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		4.2		4.2		0.0		0.0		0.0		0.0		0.0		0.0		8.4

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	425.2	13.3	8.4	10.4	11.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	425.2	13.3	8.4	10.4	11.8							
Initial Spares	4.6											
Total Proc Cost	429.8	13.3	8.4	10.4	11.8							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

DESCRIPTION: The family of M1A2 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: M1A2 Hands-on-Trainer (HOT); Hull Electrical Diagnostic/Troubleshooting (D/T) Trainer; Turret/Fire Control D/T Trainer; and Direct Support Electrical System Test Set Line Replaceable Unit (DSESTS LRU) simulators. The students (approximately 600/yr) will learn about the sub-systems and procedures for troubleshooting and fault isolating the tank system. The intended sites are Ft. Knox and Aberdeen Proving Grounds.

- SEP Integration - This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.

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

Justification:

JUSTIFICATION: Fielding of the M1A2 Main Battle Tank requires concurrent fielding of a training support package. It is not cost effective to provide effective, realistic training on the M1A2 tanks through the operational use of the vehicle. Realistic training on a family of training devices simply makes better economic sense.

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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. ADV. GNRY. TRNG. SYS. (AGTS)	A												
a. AGTS Production		1811	2	906	8424	9	936						
b. AGTS Gov't Spt.		500			300			200					
c. AGTS Non Recurring Cost													
AGTS SUBTOTAL		2311			8724			200					
2. M1A2 MAINT. TRNG. SYS. (MTS)	A												
a. MTS Production		1950	2	975				3220	3	1073			
b. MTS Gov't Spt.		100			23			120					
c. MTS Non Recurring Cost		100						90					
MTS SUBTOTAL		2150			23			3430					
3. A2 NON SYS. INTEGR. KITS (NSI)	A												
a. NSI Production													
b. NSI Gov't Spt.		310			350			750					
c. NSI Non Recurring Cost		50			50			50					
NSI SUBTOTAL		360			400			800					
4. M1A2 SOFTWARE UPGR. (SWU)	A												
a. SWU Production													
b. SWU Gov't Spt.		689			784			906					
c. SWU Non Recurring Cost		50			50			50					
SWU SUBTOTAL		739			834			956					
5. M1A2 SEP INTEGR (A2SI)	A												
a. A2SI Production		2562			400			6028					
b. A2SIGov't Spt.		200			26			400					
c. A2SI Non Recurring Cost		40											
A2SI SUBTOTAL		2802			426			6428					
Total		8362			10407			11814					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. ADV. GNRY. TRNG. SYS. (AGTS)										
FY 2000	Lockheed Martin Orlando, FL	C-FFP	STRICOM	Dec - 99	Nov - 01			yes	no	n/a
FY 2001	Lockheed Martin Orlando, FL	C-FFP	STRICOM	Apr - 01	Apr - 03			yes	no	n/a
FY 2002	Lockheed Martin Orlando, FL	C-FFP	STRICOM	May - 02	Aor - 04			yes	no	n/a
2. M1A2 MAINT. TRNG. SYS. (MTS)										
FY 2000		C-FFP	STRICOM	Dec - 99	Oct - 00			yes	no	n/a
FY 2002		C-FFP	STRICOM	Dec - 01	Oct - 02			yes	no	n/a
3. A2 NON SYS. INTEGR. KITS (NSI)										
FY 2000	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Mar - 00	Jun - 01			yes	no	n/a
FY 2001	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Feb - 01	May - 02			yes	no	n/a
FY 2002	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Feb - 02	May - 03			yes	no	n/a
4. M1A2 SOFTWARE UPGR. (SWU)										
FY 2000	Various	C-FFP	STRICOM	Mar - 00	Mar - 01			yes	no	n/a
FY 2001	Various	C-FFP	STRICOM	Mar - 01	MAR - 02			yes	no	n/a
FY 2002	Various	C-FFP	STRICOM	Mar - 02	MAR - 03			yes	no	n/a

REMARKS: A2 NON SYSTEM INTEGRATION KITS (#3 Above) 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 M1A2 tank.

M1A2 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 M1A2 Training Device software to keep pace with ongoing changes in the M1A2 tank.

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
5. M1A2 SEP INTEGR (A2SI)										
FY 2000	Lockheed Martin Orlando, FL	C-FFP	STRICOM	Feb - 00	Mar - 01			yes	no	n/a
FY 2001	Various	C-FFP	STRICOM	Feb - 01	Mar - 02			yes	no	n/a
FY 2002	Various	C-FFP	STRICOM	Feb - 02	Mar - 03			yes	no	n/a

REMARKS: A2 NON SYSTEM INTEGRATION KITS (#3 Above) 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 M1A2 tank.

M1A2 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 M1A2 Training Device software to keep pace with ongoing changes in the M1A2 tank.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)

Program Elements for Code B Items:
0603653A

Code:
C03

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			22.0	928.4	662.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			22.0	928.4	662.6							
Initial Spares												
Total Proc Cost			22.0	928.4	662.6							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Brigade Combat Team (BCT), equipped with Interim Armored Vehicles (IAVs) is a full spectrum combat force. It has utility in all operational environments. It will be employed as part of a division. 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 within the Family of Interim Armored Vehicles (IAVs) are:

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

Reconnaissance Vehicle: The Reconnaissance Vehicle 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 will support infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm and 81mm mortar carrier variants provide complimentary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault.

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

Exhibit P-40C, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)

Program Elements for Code B Items:

0603653A

Code:

C03

Other Related Program Elements:

Fire Support Vehicle: The Fire Support Vehicle 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 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 is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases.

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

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

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

Justification:

FY02 funds support the procurement of one Brigade Combat Team (BCT) equipped with Interim Armored Vehicles. An immediate need exists for an Interim Armored Vehicle (IAV) equipped C-130 transportable Brigade Combat Team (BCT), capable of deployment to anywhere on the globe in a combat ready configuration. A dynamic asymmetric threat and operational environment demands full spectrum, strategically responsive, agile and dominant land forces. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver once in the Area of Operations is essential to fulfilling the Warfighting needs of the National Command Authority. The IAV-equipped BCT is this force. The use of a common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations.

Production Ready IAV's and Fire Support Vehicles:

Live Fire Test & Evaluation and Production Verification Test: 2Q02 - 4Q03

Initial Operational Test & Evaluation: 2Q03 - 3Q03

Mobile Gun System and NBC Reconnaissance Vehicles:

Development Test & Evaluation (DTE): 4Q02 - 3Q03

Live Fire Test & Evaluation: 1Q04 - 1Q05

Production Verification Test: 1Q04 - 4Q04

Initial Operational Test & Evaluation: 3Q04 - 4Q04

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: INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Interim Armored Vehicles													
-Infantry Carrier Vehicle (ICV)					202742	143	1418	150745	114	1322			
-ICV Block Improvements													
-Reconnaissance Vehicle (RV)					79231	66	1200	61895	51	1214			
-RV Block Improvements													
-Anti-Tank Guided Missile Vehicle (ATGM)					121322	51	2379	81675	37	2207			
-ATGM Block Improvements													
-Mortar Carrier (MC)					76515	51	1500	50669	38	1333			
-MC Block Improvements													
-Fire Support Vehicle (FSV)		4084	3	1361	33224	24	1384	17514	14	1251			
-FSV Block Improvements													
-Engineer Squad Vehicle (ESV)					53249	22	2420	23723	10	2372			
-ESV Block Improvements													
-Commander's Vehicle (CV)					85691	40	2142	38586	28	1379			
-CV Block Improvements													
-Medical Evacuation Vehicle (MEV)					33048	27	1224	22417	17	1319			
-MEV Block Improvments													
-NBC Reconnaissance Vehicle (NBCRV)		11194	4	2799				33049	17	1944			
-NBCRV Block Improvements													
-Mobile Gun System (MGS)					11003								
-MGS Block Improvements													
Interim Armored Vehicles Total		15278			696025			480273					
Government Furnished Equipment/ASIOE		3412			20998			18843					
Long Range Adv Scout Surveillance Sys					27248			19294					
M707 Striker Mission Equipment Package		840			6720			4046					
Lightweight Laser Designator/Rangefinder		765			6192			3670					
Engineering Change Proposal (ECP)		328			17536			13927					
Basic Issue Items (BII)		19			763			620					
Test		935			2842			2890					
Refurbishment of Test Vehicles								8084					
Program Management Support (Govt)					23881			27066					
System Fielding Support		109			11226			24667					
Block Improvement Retrofit (Bde 1 & 2)					35710			10233					
Initial Spares		314			16806			13347					
Training Devices					44380								
System Technical Support (STS)					10000			31585					
Post Deployment Software Support (PDSS)													
Integrated Data Environment					2100			4050					

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: INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Award Fee					6000								
Modifications													
Unscheduled Modifications													
Pre-Planned Product Improvements (P3I)													
Total Modifications		6722			232402			182322					
Total		22000			928427			662595					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
INTERIM ARMORED VEHICLE (IAV) FAMILY (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
Interim Armored Vehicles										
FY 2000	GM GDLS Defense Group L.L.C. Sterling Heights, MI	C/FFP(5-1)	TACOM	Jun 01	Feb 02	4	2799	NA	NA	Apr 00
FY 2000	GM GDLS Defense Group L.L.C. Sterling Heights, MI	C/FFP(5-1)	TACOM	Aug 01	Aug 02	3	1361	NA	NA	
FY 2001	GM GDLS Defense Group L.L.C. Sterling Heights, MI	C/FFP(5-1)	TACOM	Nov 00	Feb 02	364	1614	NA	NA	
FY 2001	GM GDLS Defense Group L.L.C. Sterling Heights, MI	C/FFP(5-2)	TACOM	Jun 01	Aug 02	37	1718	NA	NA	
FY 2001	GM GDLS Defense Group L.L.C. Sterling Heights, MI	C/FFP(5-3)	TACOM	Aug 01	Aug 02	24	1384	NA	NA	
FY 2002	GM GDLS Defense Group L.L.C. Sterling Heights, MI	C/FFP(5-2)	TACOM	Dec 01	Dec 02	326	1473	NA	NA	
Long Range Adv Scout Surveillance Sys										
FY 2001	Raytheon Company McKinney, TX	C/FFP(5-2)	CECOM	Apr 01	Jun 02	69	395	Yes	NA	
FY 2002	Raytheon Company McKinney, TX	C/FFP(5-2)	CECOM	Dec 01	Feb 03	51	378	Yes	NA	
M707 Striker Mission Equipment Package										
FY 2001	Systems & Electronics, Inc. St., Louis, MO	SS/FFP	TACOM	Apr 01	Apr 02	27	280	NA	NA	
FY 2002	Systems & Electronics, Inc. St., Louis, MO	SS/FFP	TACOM	Dec 01	Dec 02	14	289	NA	NA	
Lightweight Laser Designator/Rangefinder										
FY 2001	Litton Laser Apopka, FL	SS/FPM4-1	CECOM	Jul 01	Oct 02	27	316	YES		

REMARKS: Unit cost for Interim Armored Vehicles is an average of all IAV configurations procured on delivery orders issued during the respective fiscal year. GFE delivery dates reflect contractual production/delivery dates and do not represent projected delivery dates to meet IAV fielding requirements. FY02 unit cost increase for LLDR results from increase in Non-Recurring Engineering costs amortized over 4 year period. FY03 IAV unit costs do not include Block Improvement costs.

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES		Weapon System Type:			P-1 Line Item Nomenclature: INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	Litton Laser Apopka, FL	SS/FPM4-2	CECOM	Nov 01	Aug 03	14	337	YES		

REMARKS: Unit cost for Interim Armored Vehicles is an average of all IAV configurations procured on delivery orders issued during the respective fiscal year.
 GFE delivery dates reflect contractual production/delivery dates and do not represent projected delivery dates to meet IAV fielding requirements.
 FY02 unit cost increase for LLDR results from increase in Non-Recurring Engineering costs amortized over 4 year period.
 FY03 IAV unit costs do not include Block Improvement costs.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

COMMAND & CONTROL VEHICLE (G84200)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

PE 0604640A Advanced Command and Control

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	10	10										
Gross Cost	78.3	47.7	44.9	2.5								
Less PY Adv Proc				2.5								
Plus CY Adv Proc			2.5									
Net Proc (P-1)	78.3	47.7	47.4									
Initial Spares	0.9	2.4	2.6									
Total Proc Cost	79.2	50.2	50.0									
Flyaway U/C												
Wpn Sys Proc U/C		4.8										

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

On 27 March 2000, the Army terminated the Command and Control Vehicle Program. As a result, formal C2V Product Management will cease by 4QFY01. Formal close-out of open contracts will occur NLT 4QFY02. After an analysis of alternative termination strategies, the Army decided to continue the FY1999 production contract rather than terminate for convenience. At the conclusion of production, a total of 27 C2V's (20 production, 7 pre-production) will be built. These will be stored at Red River Army depot. During this closeout phase, the Army will continue to actively seek opportunities to divert and utilize C2V components to other Army programs.

Justification:

This program was initiated as a result of deficiencies in existing command and control vehicles identified during Operation Desert Storm. Termination supports the Army's transformation plan.

Milestones for Termination:

- 1-3Q FY01: Complete FY99 Contract for Delivery of remaining C2V's
- 4Q FY01: Initiate Disposal of Program Assets
- 4Q FY02: Final Contract Closeout
- On-Going : Explore Possibilities for Trade or Exchange of C2V's

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: COMMAND & CONTROL VEHICLE (G84200)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Termination Proposal		850											
Disposal/Storage		1489											
Contractor Engr. in Support of Buildout		2600											
Government Engr. in Spt of Buildout		2566											
Proj Mgt Admin		500											
Reimbursable Matrix Support		859											
Transportation		435											
Logistics		6687											
Program Termination Transfer		31457											
Sub-Total		47443											
Initial Spares		2556											
Total		49999											
Total		49999											

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
COMMAND & CONTROL VEHICLE (G84200)

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
Termination Proposal FY 2000	UDLP York, PA	CPFF	TACOM	Jun 01						
Disposal/Storage FY 2000	UDLP York, PA	CPFF	TACOM	Aug 01						

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

COMMAND & CONTROL VEHICLE(Adv Proc) (G84200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc			2.5									
Net Proc (P-1)			2.5									
Initial Spares												
Total Proc Cost			2.5									
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Funding used for higher priority requirements.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

CARRIER, MOD (GB1930)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	747.8	55.0	62.8	54.2	48.6							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	747.8	55.0	62.8	54.2	48.6							
Initial Spares	3.5											
Total Proc Cost	751.3	55.0	62.8	54.2	48.6							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The M113 Family of Vehicles (FOV) consists of over 17,500 vehicles, 20 different variants/platforms in service in U.S. Army units. The M113 FOV is almost one half of the tracked combat vehicle fleet in a mechanized infantry or armor heavy division. The family provides transport for troops, anti-tank, fire direction, smoke, mortar, cargo carrier and command & control systems. The fleet is required for the next 20 plus years and must be modified to increase mobility, survivability and to install operational enhancements. Operation Desert Storm highlighted the need to improve the mobility and survivability, chemical protection, driver's night vision, fuel system, and Command Post Auxiliary Power Units for the fleet. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

CREW CHEMICAL PROTECTION: FY02/03 procures the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes mounting provisions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Installation will occur during vehicle conversions to the A3 configuration. Vehicle conversion will be done, in Department of the Army Master Priority List sequence, at depot or contractor facilities.

DRIVER'S NIGHT VIEWER: FY02/03 procures the AN/VVS-2(V)1A driver's night viewer as adapted for use on the M113 FOV. The M19 image intensifier currently used on the M113 Family of Vehicles (FOV) has limited night vision. The AN/VVS-2(V)1A driver's night viewer enhances operational capability by providing capability for traveling in darkness and low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.

BLOCK 1 (A3) MODIFICATION: FY02/03 procures improvements to enhance mobility and crew survivability. Provides a new 275 horsepower turbocharged engine coupled with a new transmission.

Exhibit P-40C, Budget Item Justification Sheet

Date:

June 2001

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:

This power train replaces less reliable components and results in reduced Operations and Support costs while increasing mobility to keep up with the M1 Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. Vehicle conversion to the A3 configuration will be done, in Department of the Army Master Priority Lists sequence, at depot or contractor facility.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Prior Year Closed Modifications											
0-00-00-0000		384.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	384.1
Crew Chemical Protection											
1-191-05-4311	Oper Capability	5.4	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Driver's Night Viewer											
1-94-05-4463	Oper Capability	5.2	1.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	8.1
Block I											
1-84-05-4026	Oper Capability	471.0	51.4	46.2	0.0	0.0	0.0	0.0	0.0	0.0	568.6
Totals		865.7	54.2	48.5	0.0	0.0	0.0	0.0	0.0	0.0	968.4

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Crew Chemical Protection [MOD 2] 1-191-05-4311

MODELS OF SYSTEM AFFECTED: M113 Family of Vehicles

DESCRIPTION/JUSTIFICATION:

FY02/03 procures the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes mounting provisions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Installation will occur during vehicle conversions to the A3 configuration. Vehicle conversion will be done, in Department of the Army Master Priority List sequence, at depot or contractor facilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Updated TDP Available March 99

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	198	50	50	49	50	40	40	40	40												
Outputs		63	63	63	64	35	36	36	36												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Depot/Contractor	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2002 Jan 02	FY 2003 Jan 03		FY 2004 Jan 04	
Delivery Date:	FY 2002 Oct 02	FY 2003 Oct 03		FY 2004 Oct 04	

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Crew Chemical Protection [MOD 2] 1-191-05-4311

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	198		199		160															
Installation Kits		1.1		1.1		0.9														3.1
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders		4.2																		4.2
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	198	0.1																		0.1
FY 2001 -- Kits			199	0.1																0.1
FY 2002 Equip -- Kits					160	0.1														0.1
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	198	0.1	199	0.1	160	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.3
Total Procurement Cost		5.4		1.2		1.0		0.0		0.0		0.0		0.0		0.0		0.0		7.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Driver's Night Viewer [MOD 3] 1-94-05-4463

MODELS OF SYSTEM AFFECTED: M113 Family of Vehicles

DESCRIPTION/JUSTIFICATION:

DRIVER'S NIGHT VIEWER: FY02/03 procures the AN/VVS-2(V)1A driver's night viewer as adapted for use on the M113 FOV. The M19 image intensifier currently used on the M113 Family of Vehicles (FOV) has limited night vision. The AN/VVS-2(V)1A driver's night viewer enhances operational capability by providing capability for traveling in darkness and low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

TDP Available September 94

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	984	50	50	49	50	40	40	40	40												
Outputs	767	68	68	68	68	35	36	36	36												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Depot/contractor	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2002 Jan 02	FY 2003 Jan 03		FY 2004 Jan 04	
Delivery Date:	FY 2002 Oct 02	FY 2003 Oct 03		FY 2004 Oct 04	

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Driver's Night Viewer [MOD 3] 1-94-05-4463

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	984		199		160															
Installation Kits		4.1		1.5		1.2														6.8
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	984	1.1																		1.1
FY 2001 -- Kits			199	0.1																0.1
FY 2002 Equip -- Kits					160	0.1														0.1
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	984	1.1	199	0.1	160	0.1		0.0		0.0		0.0		0.0		0.0		0.0		1.3
Total Procurement Cost		5.2		1.6		1.3		0.0		0.0		0.0		0.0		0.0		0.0		8.1

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Block I [MOD 4] 1-84-05-4026

MODELS OF SYSTEM AFFECTED: M113 Family of Vehicles

DESCRIPTION/JUSTIFICATION:

FY02/03 procures the improvements to enhance mobility and crew survivability. Provides a new 275 horsepower turbocharged engine coupled with a new transmission. This power train replaces less reliable components and results in reduced Operations and Support costs while increasing mobility to keep up with the M1 Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. Vehicle conversion to the A3 configuration will be done, in Department of the Army Master Priority Lists sequence, at depot or contractor facility.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

IPR Production Decision May 86
 TDP Available June 86

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	1787	50	50	49	50	40	40	40	40												
Outputs	1570	68	68	68	68	35	36	36	36												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 2002 Jan 02 FY 2003 Jan 03 FY 2004 Jan 04
 Delivery Date: FY 2002 Oct 02 FY 2003 Oct 03 FY 2004 Oct 04

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Block I [MOD 4] 1-84-05-4026

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity	2964		199		160																
Installation Kits		329.0		29.7		26.6														385.3	
Installation Kits, Nonrecurring																					
Equipment		3.5																		3.5	
Data		42.9																		42.9	
PM Support (Govt)		5.7		2.5		3.0														11.2	
System Technical Support (Ctr)		5.7		1.5		1.5														8.7	
Other		5.0																		5.0	
Pre Conversion/Modification		32.8		10.4		8.5														51.7	
FDT		2.0		0.6		0.5														3.1	
TPF		5.7		0.6		0.6														6.9	
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	1787	38.7																		38.7	
FY 2001 -- Kits			199	6.1																6.1	
FY 2002 Equip -- Kits					160	5.5														5.5	
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	1787	38.7	199	6.1	160	5.5		0.0		0.0		0.0		0.0		0.0		0.0		50.3	
Total Procurement Cost		471.0		51.4		46.2		0.0		0.0		0.0		0.0		0.0		0.0		568.6	

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		27	55									
Gross Cost	349.2	24.5	27.1	31.6	14.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	349.2	24.5	27.1	31.6	14.6							
Initial Spares	38.8											
Total Proc Cost	388.0	24.5	27.1	31.6	14.6							
Flyaway U/C												
Wpn Sys Proc U/C		0.9	0.5									

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Bradley Fire Support Vehicle (BFIST) integrates Mission Equipment Package (MEP) into a Bradley Fighting Vehicle, both A2 ODS and A3 platforms to support heavy maneuver force operations. The BFIST replaces the aging M981 Fire Support Vehicle for fire mission 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 maneuver units. The A3 BFIST procurement begins in FY03. The system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

The current Fire Support Vehicle, M981, was unable to maintain the operational tempo of Bradley/Abrams equipped maneuver forces during Operation Desert Storm (ODS). The A3 BFIST will displace fielded BFIST ODS vehicles. The BFIST provides synchronization of combined arms operations.

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: June 2001			
WTCV Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	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. Vehicle Upgrade			8102	55	147	5600								
2. MEP			2047	27	76	2034	29	70						
3. Pre-Mod Depot Maintenance			8232	26	317	9960	29	343						
SUBTOTAL			18381			17594								
Non Recurring Production														
4. Engineering Production			2618			5231			6368					
5. Engineering Government			953			1127			994					
6. Program Management Administration			300			355			313					
7. Reimbursable Matrix Support			368			435			384					
8. Fielding			4319			6001			5658					
9. Test & Evaluation						301								
10. Support Equipment						562			873					
11. Combat ID MDEP FPDQ			176											
SUBTOTAL			8734			14012			14590					
Total			27115			31606			14590					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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. Vehicle Upgrade										
FY 2000	UDLP, York PA	SS/FFP	USATACOM, Warren, MI	Aug-00	Sep-01	55	147			
FY 2001	UDLP, York PA	SS/FFP	USATACOM, Warren, MI	Nov-00						
FY 2002										
2. MEP										
FY 2000	SEI, Sanford FL	SS/FFP	USATACOM, Warren, MI	Dec-99	Oct-00	27	76			
FY 2001	SEI, Sanford FL	SS/FFP	USATACOM, Warren, MI	Jan-01	Oct-01	29	70			
FY 2002										

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty			24	40	151							
Gross Cost	856.2	74.1	30.2	59.3	42.3							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	856.2	74.1	30.2	59.3	42.3							
Initial Spares												
Total Proc Cost	856.2	74.1	30.2	59.3	42.3							
Flyaway U/C												
Wpn Sys Proc U/C			1.3	1.5	0.3							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The funds appropriated, budgeted, and programmed in this budget line will provide for the procurement and application of modification kits for the Bradley Fighting Vehicle. The Operation Desert Storm improvements are 4 ECPs which will correct deficiencies identified in Operation Desert Storm and include: Laser Range Finder, Position Navigation System, Equipment Restow Improvement, and Drivers Vision Enhancement. Operational improvements are the Vehicle Intercommunications System, the Digital Electronic Control Assembly, and Armor Tiles. The A2 ODS Applique(+) modification will integrate Bradley Fighting Vehicles with the Army's Applique computer system to improve situational awareness. The Battlefield Combat Identification System will provide positive identification of friendly ground vehicles to minimize battlefield fratricide. The High Priority Improvement Mod reflects evolutionary improvements to the Bradley A3 vehicle. It includes enhanced Turret Processor Unit, vehicle automated diagnostics, integrated driver's vision system, improved vehicle core electronics and improved vehicle mobility. Most of these modifications will be applied concurrently in "blocks" to reduce application cost and inconvenience to the unit. The Bradley supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

The programs in these P-Forms were initiated to meet requirements identified to correct deficiencies identified in Operation Desert Storm and to improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and mobility will occur if these modifications are delayed or reduced.

The FY01 Budget received a congressional plus up of \$20M for 89 vehicle sets of Armor Tiles.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
A2 ODS Mods											
1-92-05-4404	Oper. Capability	169.1	3.2	13.0	0.0	0.0	0.0	0.0	0.0	0.0	185.3
A2 ODS Applique											
1-98-05-4539	Oper. Capability	12.4	16.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0	39.5
Battlefield Combat Identification System											
01-98-05-4546	Oper. Capability	1.9	4.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	9.5
Armor tiles											
1-84-05-4038	Oper. Capability	112.8	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.8
BFVS High Priority Improvements											
1-98-05-4550	Oper. Capability	0.0	15.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0	30.7
Prior Year Closed Mods											
0-00-00-0000		664.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	664.2
Totals		960.4	59.3	42.3	0.0	0.0	0.0	0.0	0.0	0.0	1062.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: A2 ODS Mods [MOD 1] 1-92-05-4404

MODELS OF SYSTEM AFFECTED: M2A2/M3A2

DESCRIPTION/JUSTIFICATION:

Four vehicle improvements (ECP's) which will correct deficiencies identified in Operation Desert Storm. These increase vehicle lethality and survivability and situational awareness. Additionally, included in this effort are Armored Hatches to further improve vehicle survivability.

- a. Laser Range Finder: will give the BFVS a first burst on target capability that will reduce the time required to acquire and kill a target.
- b. Position Navigation System: Global Positioning System (GPS) integrating hardware and a self calibrating digital compass. This will enable the Bradley commander to determine his exact location at all times and determine the heading and distance to any location.
- c. Equipment Restow Improvement: Improves the method of stowing internal and external equipment.
- d. Driver's Thermal Viewer: Increases the driver's ability to see through battlefield obscurants such as dust, fog and smoke during night and day.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review: 4Q93
 Critical Design Review: 2Q94
 Contractor Test and Evaluation: 3Q94
 Development Test and Evaluation: 1Q95
 Initial Operational Test and Evaluation: 1Q95
 IPR Production Decision 2Q95

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	1353	15	32	20	19	18	13	13	13												
Outputs	1347	6	15	32	20	19	18	13	13												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contr/Depot/Field ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2002 Oct 01 FY 2003 N/A FY 2004 N/A
 Delivery Date: FY 2002 Mar 02 FY 2003 N/A FY 2004 N/A

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): A2 ODS Mods [MOD 1] 1-92-05-4404

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	1457	144.9			39	1.1														146.0
Miscellaneous Parts				0.1																0.1
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring		1.9																		1.9
Engineering Change Orders		6.0																		6.0
Data																				
Training Equipment																				
Support Equipment				2.0																2.0
Pre-Mod Depot Maintenance					39	10.0														10.0
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	1347	16.3	71	1.1																17.4
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					39	1.9														1.9
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	1347	16.3	71	1.1	39	1.9		0.0		0.0		0.0		0.0		0.0		0.0		19.3
Total Procurement Cost		169.1		3.2		13.0		0.0		0.0		0.0		0.0		0.0		0.0		185.3

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M2A2ODS, M6 Linebacker, M7 BFIST

DESCRIPTION/JUSTIFICATION:

For Force XXI and the First Digitized Division, the Bradley Infantry vehicles will be integrated with the Army's Applique'(+)' computer system. The integration kit will include mounting the flat panel display, keyboard and CPU inside of the Bradley Turret and interfacing the vehicle systems (Bradley Eyesafe Laser Rangefinder and Position/Navigation System) to applique'(+)' to provide Laser Designation and Steer-to capability. The Bradley Infantry variant will also include an additional display in the hull for squad situational awareness and a turret mounted display for the Bradley commander.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs							28	50												
							28	50												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 Mar 02 FY 2003 Mar 03 FY 2004 Mar 04
 Delivery Date: FY 2002 Mar 03 FY 2003 Mar 04 FY 2004 Mar 05

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
ODS Installation A-kits			179	11.9	147	7.0														18.9
ODS Installation B-kits	68	1.7	121	4.1	89	2.7														8.5
ODS Installation Kits	46	5.6																		5.6
ODS IOT&E Log. Spt.		0.6																		0.6
ODS Engineering Spt.		2.6																		2.6
Test Spt.		0.2																		0.2
EBC Retrofit Kits	53	1.7																		1.7
ODS Eng. Vehicle Engineering				0.7																0.7
ODS Eng. Vehicle Kits			58	0.0	129	0.1														0.1
--																				
--																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits					78	0.6														0.6
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	78	0.6		0.0		0.0		0.0		0.0		0.0		0.0		0.6
Total Procurement Cost		12.4		16.7		10.4		0.0		0.0		0.0		0.0		0.0		0.0		39.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Battlefield Combat Identification System [MOD 3] 01-98-05-4546

MODELS OF SYSTEM AFFECTED: M2A2ODS

DESCRIPTION/JUSTIFICATION:

The Battlefield Combat Identification System (BCIS) is a millimeter wave, question and answer system that will provide positive identification of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. The BCIS is a designated Army Horizontal Technology Integration (HTI) initiative.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

CDR	2Q94
PPQT/LUT	1Q95
TF XXI Demo	3Q97
NATO Demo	4Q97
LRIP IPR	2Q99
Safety release	3Q01
IOT&E	4Q01

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs			8	8		12	13	13												
Outputs			8	8		12	13	13												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	12 Months
Contract Dates:	FY 2002 Mar 02	FY 2003 Mar 03		FY 2004 Mar 04	
Delivery Date:	FY 2002 Mar 03	FY 2003 Mar 04		FY 2004 Mar 05	

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Battlefield Combat Identification System [MOD 3] 01-98-05-4546

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	16	1.9	49	4.4	45	3.2														9.5
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		1.9		4.4		3.2		0.0		0.0		0.0		0.0		0.0		0.0		9.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Armor tiles [MOD 4] 1-84-05-4038

MODELS OF SYSTEM AFFECTED: M2A2 (IFV) / M3A2 (CFV)

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Troop Installed	ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	6 Months
Contract Dates:	FY 2002 N/A	FY 2003	N/A	FY 2004	N/A
Delivery Date:	FY 2002 N/A	FY 2003	N/A	FY 2004	N/A

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Armor tiles [MOD 4] 1-84-05-4038

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	320	92.3	84	19.0																111.3
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders		0.6																		0.6
Data																				
Training Equipment																				
Support Equipment																				
Other		19.9		1.0																20.9
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		112.8		20.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		132.8

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): BFVS High Priority Improvements [MOD 5] 1-98-05-4550

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
TPU 2			126	15.0																15.0
Block 1 Mods					100	15.7														15.7
Block 2 Mods																				
Block 3 Mods																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		15.0		15.7		0.0		0.0		0.0		0.0		0.0		0.0		30.7

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Prior Year Closed Mods [MOD 6] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002

Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

FY 2003

FY 2003

0 Months

PRODUCTION LEADTIME:

FY 2004

FY 2004

0 Months

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Prior Year Closed Mods [MOD 6] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement		664.2																		664.2
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		664.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		664.2

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1548.5	11.2	26.8	8.0	5.4							
Less PY Adv Proc	16.3	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	16.3	0.0	0.0	0.0	0.0							
Net Proc (P-1)	1548.5	11.2	26.8	8.0	5.4							
Initial Spares	9.4											
Total Proc Cost	1557.9	11.2	26.8	8.0	5.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Funds the procurement of approved modifications to the 155MM Self-Propelled Howitzer. The fiscal program identified herein completes production and fielding of the M109A6 Paladin Howitzer and funds selected Paladin System Improvements. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP). (See detailed description/justification of following exhibit P-3A's.)

COOPERATIVE AGREEMENTS:

The Government of the United States of America, as represented by the Department of the Army (DA), and the Government of Israel (GOI), as represented by the Ministry of Defense (MOD), agreed to cooperate on a joint development project to improve the M109 Series 155MM Self-Propelled Howitzer in November 1985. This program incorporated already developed items, together with items which were developed under contract, into prototype M109s. DA and MOD supplied their own M109s for prototype work. GOI funding for its share of the program was \$30.7 million over Fiscal Years (FY) 1986-1990. The US Howitzer is currently in the full scale production phase and has been named the M109A6 Paladin. The US/Israeli Joint Development Agreement has expired effective with the Paladin Milestone III, Full Scale Production Decision. The system developer, BMY, a Division of Harsco Corporation, was awarded a full scale engineering development contract in October 1985, and a low rate production contract in September 1990. In April 1993, FMC Corporation (now known as United Defense Limited Partnership, Paladin Production Division) won a competitive multiyear procurement contract for full scale production of remaining Paladin requirements during FY 1993-1998 programs. A FY00 contract was awarded in July 2000 for a quantity of seven (7)systems.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Howitzer Improvement Program											
1-81-05-1002	Unclassified	1416.4	8.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1429.8
Chlorofluorocarbon (CFC Elimination)											
1-96-05-1003	Unclassified	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Prior Year Closed Modifications											
0-00-00-0000		166.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	166.8
Totals		1586.6	8.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1600.0

INDIVIDUAL MODIFICATION

Date: June 2001

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. An 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. An FY98 contract option for 36 vehicles was awarded in November 1997 and a FY00 contract was awarded in July 2000 for 7 additional systems. FY02-FY07 funding is for system improvements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The M109A6 was approved for entry into full scale development in November 1984. At that time, DA decided to modify M109A2/A3 Howitzers to a HIP configuration. It was decided to merge the Howitzer Extended Life Program (HELP) in the HIP where kits from both programs would be applied to the M109A2/A3 Howitzer. The improved 155MM Self-Propelled Howitzer was approved for Type-Classification Low Rate Production (TC-LRP) and designated the M109A6 Howitzer following a Milestone III - A ASARC on 7 February 1990. In March 1993, a Milestone III Pre-ASARC review was chaired by the Assistant Secretary of the Army for Research, Development and Acquisition, and the M109A6 Paladin was approved for Type Classification - Standard and full rate production and deployment. This Milestone III is documented in Acquisition Decision Memorandum dated 9 April 1993. The Paladin production program completed deliveries of the multiyear contract ahead of schedule. Deliveries from the FY00 contract are expected to be completed 2nd Qtr FY02.

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	951	6																		
Outputs	950				3	4														

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Production	ADMINISTRATIVE LEADTIME:	9 Months	PRODUCTION LEADTIME:	16 Months
Contract Dates:	FY 2002 Jul 2000	FY 2003		FY 2004	
Delivery Date:	FY 2002 Nov 2001	FY 2003		FY 2004	

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	957																			
Equipment		785.4		5.4																790.8
Equipment, Nonrecurring		245.3																		245.3
Engineering Change Orders		116.6																		116.6
Matrix Personnel Support		95.1																		95.1
Data/Other		18.9																		18.9
Training Equipment		14.1																		14.1
Vehicular Intercom System		11.3																		11.3
Project Mgmt Admin		22.8		0.6																23.4
Fielding		30.6		1.9																32.5
System Improvements				0.1		5.4														5.5
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	957	76.3																		76.3
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	957	76.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		76.3
Total Procurement Cost		1416.4		8.0		5.4		0.0		0.0		0.0		0.0		0.0		0.0		1429.8

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Chlorofluorocarbon (CFC Elimination) [MOD 2] 1-96-05-1003

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

DESCRIPTION/JUSTIFICATION:

References: DOD Directive 6050.0; Policy Letter 200.91-1; AMC Regulation 70-68; Montreal Protocol of 1986. The previous references mandate the replacement of R-12 FREON, used in the current M109A6 Paladin's Microclimatic Conditioning System (MCS), with a non-chlorofluorocarbon (CFC) substitute.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Request for Proposal - 3QFY97
 Contractor Selected - 1QFY98
 Joint Government/Contractor Test and Evaluation - 3QFY98 and ongoing
 IPR Production Decision/Contract Modification - 2QFY99
 TDP Available - 2QFY99

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	950																			
Outputs	907	37	6																	

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Field Retrofit ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Chlorofluorocarbon (CFC Elimination) [MOD 2] 1-96-05-1003

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	950																			
Hardware		2.0																		2.0
Testing		0.2																		0.2
--																				
--																				
--																				
--																				
--																				
--																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	950	1.2																		1.2
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	950	1.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.2
Total Procurement Cost		3.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		3.4

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Prior Year Closed Modifications [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002

Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

FY 2003

FY 2003

0 Months

PRODUCTION LEADTIME:

FY 2004

FY 2004

0 Months

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Prior Year Closed Modifications [MOD 3] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement		166.8																			166.8
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits																					
FY 2001 -- Kits																					
FY 2002 Equip -- Kits																					
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 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		166.8		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:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	98.0	3.1	0.2	0.0	18.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.0	3.1	0.2	0.0	18.5							
Initial Spares												
Total Proc Cost	98.0	3.1	0.2	0.0	18.5							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Funds the procurement of approved modifications to the M992 and M992A1 Field Artillery Ammunition Support Vehicle. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
FAASV Materiel Change (A2 Conversion)											
1-93-05-4457	Unclassified	98.2	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	116.7
FAASV Halon Replacement											
1-94-05-4477	Unclassified	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
Totals		101.3	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	119.8

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M992 and M992A1

DESCRIPTION/JUSTIFICATION:

The FAASV materiel Change encompasses the previously approved FAASV HELP (Howitzer Extended Life Program) and Survivability Materiel Changes. The materiel change incorporates M109 Family of Vehicles improvements into the FAASV in order to maintain a common chassis. These improvements include the Low Heat Rejection/Cold Start Engine, improved XTG 411-4 Transmission, Reliability, and Maintainability (RAM) improvements to the cooling, electrical, and suspension systems, relocated heater and hydraulic reservoir, stronger fuel cell, and modifications to provide interoperability with the M109A6 Paladin Howitzer. The enhancements provided by the materiel change will permit the FAASV crew to operate in the same environment as the M109A6 Paladin. This means the operation and maintenance features will be common and the FAASV cold starting and RAM features will be comparable. The modifications to the rear door conveyor and propellant racks will improve M109A6 supportability. FY02 funding is for retrofitting the FAASV fleet with an improved auxiliary power unit (APU) capable of simultaneously supplying Paladin and FAASV silent watch electrical power requirements along with other system improvements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	789																			
Outputs	789																			

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	FY 1999	FY 2003	FY 2000	FY 2004	FY 2001
Delivery Date:	FY 2002	FY 1999	FY 2003	FY 2000	FY 2004	FY 2001

ADMINISTRATIVE LEADTIME: 24 Months

PRODUCTION LEADTIME: 24 Months

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	789																			
Installation Kits		43.6		0.0																43.6
Engineering Change Orders		9.3																		9.3
Project Management Admin		3.1				1.0														4.1
Testing		0.3																		0.3
Fielding Support		6.2																		6.2
Depot Maint Pre Modification		0.8																		0.8
System Improvements:		9.4				17.5														26.9
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	789	25.5																		25.5
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	789	25.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		25.5
Total Procurement Cost		98.2		0.0		18.5		0.0		0.0		0.0		0.0		0.0		0.0		116.7

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: FAASV M992A2

DESCRIPTION/JUSTIFICATION:

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

These references mandate the replacement of Halon charged fire suppression systems to prevent ozone depletion. A common replacement agent engine compartment fire extinguishing system is required on 927 FAASV systems. FY97-99 funds have been appropriated to initiate the conversion process by replacing the fire suppression distribution system in the FAASV engine compartment with one suitable to both Halon and the selected alternate agent. FY04 funds have been appropriated to swap out the Halon bottles to the selected alternate agent for 927 FAASV systems. Additional FY03-05 funds will be used to test a safe and environmentally acceptable Automatic Fire Extinguishing System (AFES) materiel for the crew compartment for the FAASV.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	720	207																		
Outputs	610	200	117																	

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	FY 1999	FY 2003	FY 2000	FY 2004	FY 2001
Delivery Date:	FY 2002	FY 1999	FY 2003	FY 2000	FY 2004	FY 2001

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 3 Months

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity	927																				
Installation Kits A		1.0																			1.0
Engineering Support		0.2																			0.2
Test		0.5																			0.5
Installation Kits B																					
--																					
--																					
--																					
--																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	927	1.4																			1.4
FY 2001 -- Kits																					
FY 2002 Equip -- Kits																					
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	927	1.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	1.4
Total Procurement Cost		3.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	3.1

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	86	16		27	21							
Gross Cost	207.0	53.6		73.7	58.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	207.0	53.6		73.7	58.1							
Initial Spares	3.5			2.8	2.9							
Total Proc Cost	210.6	53.6		76.5	61.0							
Flyaway U/C												
Wpn Sys Proc U/C		3.3		2.7	2.8							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The M88A2 HERCULES is an armored full tracked, diesel-powered, recovery vehicle configured with an A-frame boom, three winches and a spade. The boom has a 35-ton lift capacity and the main winch has a constant pull capacity of 70 tons. The hull is armored for protection against small arms fire, artillery fragments and anti-personnel mines. The vehicle mounts a caliber 50 machine gun for self-protection. The M88A2 HERCULES is capable of performing recovery, evacuation and limited repair of the main battle tank.

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

Justification:

FY02 procures 21 M88A2 HERCULES utilizing the existing M88A1 chassis as the base vehicle and increasing the horsepower, brake/steering, winch, lift and suspension characteristics which will allow the safe recovery of Abrams tanks and other 70 ton combat vehicles. The fielded M88A1 lacks the necessary horsepower and braking to safely support the recovery of the Abrams fleet. Improvements incorporated into HERCULES fix these operational shortcomings. In addition, the increased winching and lifting capability accommodate all Abrams variance and other 70-ton M1A2. Without the improvements incorporated in the HERCULES, units must use two or three recovery vehicles (or another Abrams to tow a disabled tank) to perform the spectrum of recovery missions.

The USMC Planned Production with delivery concurrent with the Army:

FY01 17

FY02 9

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES			P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Vehicle Manufacturing - Contractor	A				51300	27	1900	40704	21	1938			
Vehicle Manufacturing - GFE					2855			2258					
Contractor Engineering					9550			4337					
Engineering Change Orders					95			75					
Project Management - Core					1883			1914					
Project Management - OGA					1242			1262					
Transportation					47			151					
Fielding					1430			2095					
Testing (non-Track and Cleat)													
Depot Maintenance - Premodification					2554			2020					
Fleet Cut-in/Retrofit for Modifications					311			246					
Track and Cleat Engineering & Testing					2080			3000					
Data					357			52					
Spares					2757			2850					
Total					76461			60964					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES		Weapon System Type:			P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Vehicle Manufacturing - Contractor										
FY 2001	UDLP York, PA	SS-FFP	TACOM	APR 01	MAR 02	27	1900	YES		OCT 00
FY 2002	UDLP York, PA	SS-FFP	TACOM	MAR 02	MAR 03	21	1938	YES		OCT 01
Vehicle Manufacturing - GFF										
FY 2001	VARIOUS	RQN/PO	Various	Various	Various			YES		
FY 2002	VARIOUS	RQN/PO	Various	Various	Various			YES		

REMARKS: FY01: Production material with greater than 12 month lead time was awarded in Nov 00 with definitive production contract being awarded in Apr 01.

FY02: Production material with greater than 12 month lead time must be awarded in Nov 01 with definitive production contract being awarded in Mar 02.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

BREACHER SYSTEM (MOD) (GZ3200)

Program Elements for Code B Items:

0604649A

Code:

B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			0.5									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			0.5									
Initial Spares												
Total Proc Cost			0.5									
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Grizzly (M1 Breacher) will be developed around the M-1 Abrams tank chassis and will integrate a versatile/survivable full-width mine clearing blade with automatic depth control, a power driven arm to reduce complex obstacles, and an armored commander's control station. The Grizzly will provide the Combat Engineer with significantly improved mission effectiveness and crew/vehicle survivability while clearing minefields and removing complex natural and man-made obstacles at the forward edge of the battlefield. The Grizzly will be capable of moving with, and be as survivable as, the force it is supporting. It will provide the maneuver force with the freedom required to successfully execute assigned ground combat mission requirements.

Justification:

During Operation Desert Storm, it became evident that the Army had no one vehicle capable of performing a complex obstacle breach during hasty or deliberate attacks. The Grizzly provides a critical resource for executing breaches, supporting the Force XXI maneuver commander's goals of information, and maneuver dominance on the battlefield without the loss of momentum. The Grizzly, a single, survivable breach platform, gives the Combat Engineer a capability that does not currently exist in today's complex obstacle breaching operations. All existing counterobstacle and countermine systems are single purpose only, and lack the mobility, protection, and agility of the current maneuver force. The Grizzly possesses a complex obstacle reducing capability, with mobility, protection, and agility comparable to the M-1 Abrams Tank.

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: BREACHER SYSTEM (MOD) (GZ3200)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Program Management Support		513											
Total		513											

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	14	6	14	12	5							
Gross Cost	106.4	50.0	90.9	76.3	48.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	106.4	50.0	90.9	76.3	48.6							
Initial Spares	0.9	0.9	1.3									
Total Proc Cost	107.3	50.8	92.2	76.3	48.6							
Flyaway U/C												
Wpn Sys Proc U/C		8.3	6.5									

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Wolverine (Heavy Assault Bridge) is a 26 meter (84 feet) Military Load Class 70 bridge mounted on a modified M1A2 SEP Abrams Tank chassis. The bridge spans gaps up to 24 meters on both prepared and unprepared abutments and can be placed on a bearing surface over its entire length. It is launched under armor within five minutes and can be retrieved, from either end, in less than ten minutes. The Wolverine, operated by a crew of two 12B soldiers, achieves Enhanced Battle Command (EBC) via Applique in support of combined arms operations. Its mission is to provide gap crossing capability for heavy maneuver forces. It supports the Abrams Tank System and the Bradley Fighting Vehicle equipped BCT with equal mobility, survivability, and supportability. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

Operation Desert Storm illustrated that current Army bridging systems lacked heavy maneuver force mobility, survivability, and MLC 70, gap spanning capability. The Wolverine replaces the Armored Vehicle Launched Bridge (AVLB) providing increased gap crossing, increased load capacity with improved mobility, survivability, and logistics supportability. The Wolverine ensures the Heavy Brigade Combat Team's freedom of maneuver and enables the massing of combat power. First Unit Equipped was Feb 01 with 13 vehicles supporting the engineer battalions participating in the Division Capstone Exercise.

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: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)			Weapon System Type:			Date: June 2001			
WTCV Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Vehicle Manufacturing - Contractor			46848	14	3346	43000	12	3583	18080	5	3616			
Vehicle Manufacturing - ANAD			1984	14	142	1746	12	146	753	5	151			
Vehicle Manufacturing - GFE			8516	14	608	7418	12	618	3132	5	626			
Contract Engineering - HAB Unique			23677			16861			13378					
Contract Engineering - SEP Common			500			570			500					
Engineering Change Orders			2700			1100			395					
Project Mgmt Admin - Core			1380			700			3000					
Project Mgmt Admin - OGA			2475			1700			4878					
Additional Bridges														
New Equipment Training			120			100			150					
Total Package Fielding			900			2300			2779					
Transportation			300			400			500					
Modifications						400			511					
Dir Spt Elec Sys Test Set (DSESTS)			1500											
Obsolescence									536					
Initial Spares			1337											
Total			92237			76295			48592					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)

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
Vehicle Manufacturing - Contractor										
FY 2000	General Dynamics Land Sys Sterling Heights, MI	SS-FFP M3	TACOM	Jul 00	Oct 01	14	3346	YES		Aug 97
FY 2001	General Dynamics Land Sys Sterling Heights, MI	SS-FFP	TACOM	May 01	Jan 03	12	3583	YES		Mar 01
FY 2002	General Dynamics Land Sys Sterling Heights, MI	SS-FFP	TACOM	Sep 02	Feb 04	5	3616	YES		
Vehicle Manufacturing - ANAD										
FY 2000	Anniston Army Depot Anniston, Alabama					14	142			
FY 2001	Anniston Army Depot Anniston, Alabama					12	146			
FY 2002	Anniston Army Depot Anniston, Alabama					5	151			
Vehicle Manufacturing - GFE										
FY 2000	Govt Furnished Equipment Various					14	608			
FY 2001	Govt Furnished Equipment Various					12	618			
FY 2002	Govt Furnished Equipment Various					5	626			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	146.2	1.0	1.4		4.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	146.2	1.0	1.4		4.0							
Initial Spares												
Total Proc Cost	146.2	1.0	1.4		4.0							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Armored Vehicle Launch Bridge (AVLB) is the current authorized standard assault bridge supporting heavy forces. AVLBs are primarily assigned to Combat Engineer, Training Units and War Reserve sites.

COMMON CHASSIS MODIFICATIONS: Required to bring the fleet to a common supportable configuration.

HYDRAULIC/ELECTRIC: Hydraulic and electrical system will be updated from their current 1950s based technology configuration. Seat belts will also be installed.

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

Justification:

FY02 Funding provides for the AVLB Common Chassis Modification application and initiation of Hydraulic/Electrical proveout. Mods will support the AVLB fleet, starting with Active Component and high priority War Reserve assets.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Hydraulic/Electrical Upgrade											
0-00-00-0000	Oper Capability	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Prior Completed Mods											
0-00-00-0000		146.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	146.2
Battlefield Combat Identification Systems											
0-00-00-0000	Oper Capability	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
AVLB Common Chassis Mod											
1-97-05-4531	Oper Capability	2.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Totals		148.6	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	152.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Hydraulic/Electrical Upgrade [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M48A5/M60A1

DESCRIPTION/JUSTIFICATION:

2. AVLB HYDRAULIC/ELECTRICAL UPGRADE: Hydraulic System Improvements incorporate current technology components, eliminating leaks and improving pump reliability to reduce maintenance burden. Electrical System Improvement, incorporates Improved Harness Wrap and 650 AMP Alternator improving Mean Time Between Failure. This upgrade will improve readiness and supportability. Seat belts will also be installed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Dec 01, Award Production Prove Out
 Mar 03, Complete Evaluation
 June 03, Award Buy/Apply Contract

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				
	FY 2006				FY 2007				FY 2008				FY 2009				To	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete			
Inputs																				
Outputs																				

METHOD OF IMPLEMENTATION: FIELD ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 Dec 01 FY 2003 Dec 02 FY 2004 Dec 03
 Delivery Date: FY 2002 Dec 02 FY 2003 Dec 03 FY 2004 Dec 04

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Hydraulic/Electrical Upgrade [MOD 1] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity					2															
Installation Kits						0.2														0.2
Installation Kits, Nonrecurring																				
Equipment																				
Tooling						0.1														0.1
Engineering Change Orders						0.2														0.2
TM Updates						1.5														1.5
Govt Support						0.5														0.5
STS						0.2														0.2
Testing																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					2	0.1														0.1
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	2	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.1
Total Procurement Cost		0.0		0.0		2.8		0.0		0.0		0.0		0.0		0.0		0.0		2.8

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Battlefield Combat Identification Systems [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M48A5/M60A1

DESCRIPTION/JUSTIFICATION:

Funds were provided to PM Combat ID as directed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	PM BCIS	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2002		FY 2003		FY 2004
Delivery Date:	FY 2002		FY 2003		FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Battlefield Combat Identification Systems [MOD 3] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity		0.2																			0.2
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits																					
FY 2001 -- Kits																					
FY 2002 Equip -- Kits																					
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.0
Total Procurement Cost		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.2

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: AVLB Common Chassis Mod [MOD 4] 1-97-05-4531

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

1. AVLB COMMON CHASSIS MOD: To complete application of 7 each Modification Work Orders (MWOs) on All AVLBs needing one or more modifications. Armored Top Loading Air Cleaner and Air Induction System Improvements (Clean Air) improves reliability and extends engine life. AN/VVS-2 Driver's Night Viewer (DNV) enhances tactical night operations. Smoke Grenade Launcher allows the AVLB to maneuver under cover of obscure smoke in a tactical environment. New Vision Cupola and Security Locking Device improves closed hatch vision and vehicle security. Engine Smoke Generating System provides a second source of obscuring smoke in a tactical environment. These MWOs are required on AVLBs to bring them up to the current supportable configuration. The MWOs will be installed on Active Component and high priority War Reserve vehicles first.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Aug 98, TDP Review
 Mar 99, Fleet Assessment
 Sept 00, Installation Validation/Verification

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	52																			
Outputs	10	20	22																	

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Contractor/Depot	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2002 Dec 01	FY 2003 Dec 02		FY 2004 Dec 03	
Delivery Date:	FY 2002 Sep 02	FY 2003 Sep 03		FY 2004 Sep 04	

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): AVLB Common Chassis Mod [MOD 4] 1-97-05-4531

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	52				47															
Installation Kits		0.9				0.6														1.5
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Govt Support		0.8				0.2														1.0
Contract Engineering		0.4																		0.4
Pre-Conversion Contractor Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	52	0.1																		0.1
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					47	0.4														0.4
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	52	0.1		0.0	47	0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.5
Total Procurement Cost		2.2		0.0		1.2		0.0		0.0		0.0		0.0		0.0		0.0		3.4

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	610.2	26.0	29.6	56.5	113.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	610.2	26.0	29.6	56.5	113.5							
Initial Spares												
Total Proc Cost	610.2	26.0	29.6	56.5	113.5							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Description: This budget line is for applying user-approved modifications to fielded Abrams tanks. Notable survivability improvements include frontal and side armor upgrades and the Under Armor Auxiliary Power Unit (APU). The Abrams-Crusader Common Engine (ACCE) program is the centerpiece of efforts to address the growing problem of parts obsolescence. Key safety improvements include the Driver's Hatch Interlock and the Eye-Safe LASER Range Finder (ESLRF). The sole environmental improvement is the effort to replace halon, a known ozone-depleting chemical, in the tank's fire extinguishing systems. These modifications collectively support the Legacy transition path of the Transformation Campaign Plan (TCF).

Justification:

Justification: These modifications correct or alleviate tank operational deficiencies identified during testing, training exercises, or combat in Operation Desert Storm.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Halon Replacement											
1-92-05-4411	Environmental	9.9	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
Driver's Hatch Interlock (DHI)											
1-97-05-4520	Safety	24.8	1.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	28.3
Vehicle Intercommunications System (VIS)											
1-92-05-4412	Legislative Compl	51.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.6
Battlefield Combat I.D. System (BCIS)											
1-98-05-4543	Operational	2.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
Precision Lightweight GPS Receiver (PLGR)											
1-92-05-4417	Manprint	1.4	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Block G Mods											
1-99-05-4554	Deficiency Correct	54.8	1.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	58.5
Pulse - Jet System (PJS)											
1-92-05-4475	Operational	39.4	6.9	7.1	0.0	0.0	0.0	0.0	0.0	0.0	53.4
FBCB2 Upgrade											
1-96-05-4516	Operational	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9
External Auxiliary Power Unit (EAPU)											
1-85-05-4057	Operational	60.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.4
NBC Fire Warning (NBCFW)											
1-97-05-4524	Safety	0.2	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Hand - Held Fire Extinguisher (HHFE)											
1-97-05-4525	Safety	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Abrams Field Mods											
1-97-05-4534	Deficiency Correct	8.1	2.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	11.9
Frontal Armor Upgrade											
1-98-05-4545	Operational	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	9.2
Improved Turret Side Armor											
1-99-05-4555	Operational	0.0	0.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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
Eyesafe Laser Rangefinder (ESLRF)											
1-99-05-4563	Safety	0.0	5.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Abrams Crusader Common Engine (ACCE)											
1-00-05-0014	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electronics Obsolescence											
1-00-05-0015	Operational	0.0	7.5	22.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5
Under Armor Auxiliary Power Unit (UAAPU)											
1-98-05-4545	Operational	0.0	7.4	29.5	0.0	0.0	0.0	0.0	0.0	0.0	36.9
Support											
0-00-00-0000	Operational	2.3	16.5	26.7	0.0	0.0	0.0	0.0	0.0	0.0	45.5

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
M1A1D Retrofit											
1-98-05-4542	Operational	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
M829E3 Ballistic Solution											
1-01-05-0011	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		280.0	56.5	113.5	0.0	0.0	0.0	0.0	0.0	0.0	450.0

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M1 = 0 IPM1 = 818 M1M1 = 4327 M1A2 = 1174 TOTAL = 6319

DESCRIPTION/JUSTIFICATION:

This modification changes the engine compartment fire suppression system in all models of the Abrams Tank. This retrofit involves the substitution of a dry powder fire suppressant for the Halon 1301 gas currently used. This requirement was mandated by the 1988 Montreal Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals (ODCs) including the Halon 1301 used in the Abrams Tank Engine Compartment. Halon 1301 remains authorized for use in the Abrams Crew Compartment due to the survivability concerns.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs			75	76	38	38	39	40												
Outputs							75	76												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity			151		158															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		9.9		0.6		0.6														11.1
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					151	0.4														0.4
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	151	0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.4
Total Procurement Cost		9.9		0.6		1.0		0.0		0.0		0.0		0.0		0.0		0.0		11.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Driver's Hatch Interlock (DHI) [MOD 2] 1-97-05-4520

MODELS OF SYSTEM AFFECTED: M1 = 0 IPM1 = 818, M1A1 = 4327, M1A2 = 435 TOTAL RQMT = 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 2001				FY 2002				FY 2003				FY 2004				FY 2005				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	3173																				
Outputs	1986	49	49	49	50	123	123	124	125												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2002 NA FY 2003 NA FY 2004 Mar 01
 Delivery Date: FY 2002 NA FY 2003 NA FY 2004 Jul 01

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Driver's Hatch Interlock (DHI) [MOD 2] 1-97-05-4520

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	3173				135															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		20.0				1.0														21.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	1986	4.8																		4.8
FY 2001 -- Kits			197	1.1																1.1
FY 2002 Equip -- Kits					495	1.4														1.4
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	1986	4.8	197	1.1	495	1.4		0.0		0.0		0.0		0.0		0.0		0.0		7.3
Total Procurement Cost		24.8		1.1		2.4		0.0		0.0		0.0		0.0		0.0		0.0		28.3

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4337, M1A2 = 181 TOTAL RQMT = 4518

DESCRIPTION/JUSTIFICATION:

The Vehicle Intercommunications System (VIS) is an intercom for inter-crew communications and a connection to a radio for tank to tank direct communications. VIS replaces the AN/VIC - 1 which is technologically obsolete, difficult to maintain and susceptible to electronic countermeasures. VIS is a state-of-the-art replacement which has none of these drawbacks. This is a Congressionally mandated program. All milestones are for USA CECOM, the "A" proponent for the VIS program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development Test & Evaluation.....PLANNED: 4Q92.....ACCOMPLISHED: 2Q92
 Initial Operational Test & Eval.....PLANNED: 3Q94.....ACCOMPLISHED: 3Q94
 IPR Production Decision.....PLANNED: 4Q94.....ACCOMPLISHED: 4Q94

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	4518																			
Outputs	4518																			

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2002 JUN 99 FY 2003 NA FY 2004 NA
 Delivery Date: FY 2002 OCT 99 FY 2003 NA FY 2004 NA

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	4518																			
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		41.1																		41.1
Equipment, Nonrecurring		5.0																		5.0
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	4518	5.5																		5.5
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	4518	5.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		5.5
Total Procurement Cost		51.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		51.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Battlefield Combat I.D. System (BCIS) [MOD 4] 1-98-05-4543

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1540, M1A2 = 1174; TOTAL RQMT = 2714

DESCRIPTION/JUSTIFICATION:

The Battlefield Combat Identification System (BCIS) is a communication system that will provide positive identification of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. Note that the cost of installations is included in the hardware cost.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone II.....PLANNED: 3Q93.....ACCOMPLISHED: 3Q93
 Critical Design Review.....PLANNED: 2Q94.....ACCOMPLISHED: 2Q94
 PPQT / LUT.....PLANNED: 1Q95.....ACCOMPLISHED: 1Q95
 T. F. XXI Demo.....PLANNED: 3Q97.....ACCOMPLISHED: 3Q97
 NATO Demo.....PLANNED: 4Q97.....ACCOMPLISHED: 4Q97
 LRIP IPR.....PLANNED: 2Q99.....ACCOMPLISHED: 3Q99

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:	Contractor Install	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2002 NA	FY 2003	MAR 00	FY 2004	MAR 01
Delivery Date:	FY 2002 NA	FY 2003	DEC 00	FY 2004	DEC 01

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Battlefield Combat I.D. System (BCIS) [MOD 4] 1-98-05-4543

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	16		34																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		2.1		2.9																5.0
Equipment, Nonrecurring																				
Engineering				2.0																2.0
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		2.1		4.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		7.0

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL RQMT = 4327

DESCRIPTION/JUSTIFICATION:

The Precision Lightweight Global Positioning System Receiver (PLGR) is a self-contained locator unit which can collect and process GPS satellite signals and derive Position (To within + or - 10 meters), Velocity and Time (PVT). The funding shown is for the PLGR Installation Kit only. PLGR units were procured and provided to PM Abrams by PM GPS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																					
Inputs	393	33	33	34	35	33	33	34	35												
Outputs	138	63	63	64	65	33	33	34	35												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 5 Months
 Contract Dates: FY 2002 AUG 99 FY 2003 AUG 00 FY 2004 AUG 01
 Delivery Date: FY 2002 JAN 00 FY 2003 JAN 01 FY 2004 JAN 02

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity																					
Installation Kits	393		135		135																
Installation Kits, Nonrecurring																					
Equipment		1.3		0.3		0.3															1.9
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	138	0.1																			0.1
FY 2001 -- Kits			255	0.2																	0.2
FY 2002 Equip -- Kits					135	0.1															0.1
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	138	0.1	255	0.2	135	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.4	
Total Procurement Cost		1.4		0.5		0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0	2.3

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL = 4327

DESCRIPTION/JUSTIFICATION:

Block G consists of the following M1A1/M1A2 Tank modifications: [1] Independent Manual Blaster, [2] Driver's/Loader's Hatch Ballistic Rims, [3] AFES Wiring Harness Ballistic Protection, [4] Driver's Hatch Latch, [5] Improved Gunner's Station, [6] Smoke Generator Fuel Line, [7] Ammunition Door Latch Mechanism, [8] Battlefield Override and [9] Driver's Viewer Quick Release. Each of these modifications corrects a deficiency found during Live-Fire Testing or during combat in Operation Desert Storm. These modifications were planned for concurrent procurement & installation. Quantities are shown as various because fielded tanks require varying numbers of the listed components due to production differences and because of unmatched kit deliveries from different small business vendors.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Various - Milestones differ for individual Modifications noted above.

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Depot/Contr Teams ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		16.7		0.8		0.7														18.2
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits		38.1																		38.1
FY 2001 -- Kits				0.8																0.8
FY 2002 Equip -- Kits						1.4														1.4
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		38.1		0.8		1.4		0.0		0.0		0.0		0.0		0.0		0.0		40.3
Total Procurement Cost		54.8		1.6		2.1		0.0		0.0		0.0		0.0		0.0		0.0		58.5

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 228, TOTAL RQMT = 4555

DESCRIPTION/JUSTIFICATION:

The Pulse - Jet System (PJS) replaces a large portion of the current engine air filtration system. The purpose of PJS is to extend the time between required air path servicing in any severe dust environment. The current system requires frequent servicing in such an environment which can introduce dust into the clean air path as each servicing requires that the path is broken in order to complete the service. PJS greatly reduces the number of times the clean air path requires servicing. The result is improved combat performance and reduced O&S costs. PJS was identified as user priority number one by Abrams tank units involved in Operation Desert Storm (ODS). NOTE: 180ea additional PJS Kits were procured using FY97 DBOF OSCR (O & S Cost Reduction) funds. This procurement is NOT a part of the Abrams tank MOD Line procurements but the 180 are being installed using MOD Line \$\$\$, thus total procured will be 180 less than the total installed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	694	33	33	34	35	33	33	34	35												
Outputs	684	47	47	48	48	33	33	34	35												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	ADMINISTRATIVE LEADTIME:	24 Months	PRODUCTION LEADTIME:	24 Months
Delivery Date:	FY 2002				

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity	694		135		135																
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment		35.3		6.5		6.8															48.6
Equipment, Nonrecurring																					
Engineering Change Orders																					
Testing																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	684	4.1																			4.1
FY 2001 -- Kits			190	0.4																	0.4
FY 2002 Equip -- Kits					135	0.3															0.3
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	684	4.1	190	0.4	135	0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0	4.8
Total Procurement Cost		39.4		6.9		7.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0	53.4

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: FBCB2 Upgrade [MOD 8] 1-96-05-4516

MODELS OF SYSTEM AFFECTED: M1A1D and M1A2 SEP

DESCRIPTION/JUSTIFICATION:

FBCB2 Upgrade refers to the Command and Control software required for digital communications between the Abrams tanks and the other members of the combined arms team. This budget line is for Systems Engineering efforts associated with FBCB2 updates.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q97.....ACCOMPLISHED: 3Q97
 Critical Design Review.....PLANNED: 3Q97.....ACCOMPLISHED: 4Q97
 Contractor Test & Eval.....PLANNED: 1Q98.....ACCOMPLISHED: 1Q98
 Development Test & Eval.....PLANNED: 3Q98.....ACCOMPLISHED: 3Q98
 Performance Spec Complete.....PLANNED: 4Q99.....ACCOMPLISHED: 4Q99

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Delivery Date:	FY 2002				

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): FBCB2 Upgrade [MOD 8] 1-96-05-4516

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Systems Engineering Efforts				0.4		0.5														0.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.4		0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.9

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: External Auxiliary Power Unit (EAPU) [MOD 9] 1-85-05-4057

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1838

DESCRIPTION/JUSTIFICATION:

The current use of the Abrams Tank in stationary night defensive position, known as Silent Watch Mode, requires long duration idling of the vehicle main engine in order to generate the required electricity. The External Auxiliary Power Unit (EAPU) provides power for this type of requirement at greatly reduced fuel usage and without main engine wear. The EAPU continuously delivers 2.2 KW of power at 28 Volts DC. The EAPU mounts in the left side of the turret bustle rack and is fully integrated with the tank electrical systems. The EAPU has its own fuel supply and can provide power for 10 to 12 hours on one tank - full of diesel fuel.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Complete

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	1838																			
Outputs	1838																			

	FY 2006				FY 2007				FY 2008				FY 2009				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																	Complete	
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002

Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

0 Months

FY 2003

FY 2003

PRODUCTION LEADTIME:

0 Months

FY 2004

FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): External Auxiliary Power Unit (EAPU) [MOD 9] 1-85-05-4057

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	1838																			
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		51.7																		51.7
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	1838	8.7																		8.7
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	1838	8.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		8.7
Total Procurement Cost		60.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		60.4

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: NBC Fire Warning (NBCFW) [MOD 10] 1-97-05-4524

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL RQMT = 4327

DESCRIPTION/JUSTIFICATION:

The NBC Fire Warning (NBCFW) modification is an NBC (Nuclear, Biological & Chemical) system safety fix. It addresses the problem of NBC system fires caused by overheating. The NBCFW will provide for an audible warning alarm in the crew CVC helmet that sounds when the NBC sponson over-temperature light illuminates. This audible warning will allow tank crews to take the early action necessary to properly deal with an NBC filter fire. Only the M1A1 requires this modification. Earlier models do not have the NBC system on-board and M1A2's are being modified through a software change.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q96.....ACCOMPLISHED: 3Q96
 Critical Design Review.....PLANNED: 3Q97.....ACCOMPLISHED: 3Q97
 Initial Operational Test & Eval..PLANNED: 1Q98.....ACCOMPLISHED: 1Q98
 IPR Production Decision.....PLANNED: 2Q98.....ACCOMPLISHED: 2Q98
 T D P Available.....PLANNED: 1Q99.....ACCOMPLISHED: 1Q99

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				
		Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	100	123	123	124	125	123	123	124	125													
Outputs	95				5	123	123	124	125													
		FY 2006				FY 2007				FY 2008				FY 2009				To	Totals			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			Complete		
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Contr/Depot Team ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 5 Months
 Contract Dates: FY 2002 AUG 99 FY 2003 JAN 00 FY 2004 JAN 01
 Delivery Date: FY 2002 DEC 99 FY 2003 JUN 00 FY 2004 JUN 01

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): NBC Fire Warning (NBCFW) [MOD 10] 1-97-05-4524

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	100		495		495															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		0.2		0.8		0.8														1.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	95																			
FY 2001 -- Kits			5																	
FY 2002 Equip -- Kits					495	0.2														0.2
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	95	0.0	5	0.0	495	0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.2
Total Procurement Cost		0.2		0.8		1.0		0.0		0.0		0.0		0.0		0.0		0.0		2.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Hand - Held Fire Extinguisher (HHFE) [MOD 11] 1-97-05-4525

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 3750, M1A2 = 0 TOT RQMT = 3750

DESCRIPTION/JUSTIFICATION:

Under the terms of the 1988 Montreal Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals (ODC's), HALON 1301 used in the Abrams Tank for fire suppression must be eliminated. One current program does this in the engine compartment. This additional program will replace HALON Hand - Held Fire Extinguishers in the Abrams turret with new Non - HALON extinguishers. The funding identified here - in will support the initial buy of Abrams Hand - Held Fire Extinguishers. Note that installation funding is NOT identified. This program is expected to result in a one - for - one replacement in each Abrams tank which can easily be accomplished by tank crews so deliveries will be directly to tank units and no formal installation program is required nor is one shown below. Also note that four (4) extinguishers are required per tank so that 15000 will equip the 3750 tanks noted above while Reserve and N.G. tank requirements will be funded within their individual budgets.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q97.....ACCOMPLISHED: 2Q97
 Critical Design Review.....PLANNED: 2Q98.....ACCOMPLISHED: 2Q98
 Initial Operational Test & Eval.....PLANNED: 4Q98.....ACCOMPLISHED: 4Q98
 IPR Production Decision.....PLANNED: 2Q99.....ACCOMPLISHED: 2Q99
 TDP Available.....PLANNED: 1Q01.....ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: By Units ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 4 Months
 Contract Dates: FY 2002 FY 2003 JAN 00 FY 2004 JAN 01
 Delivery Date: FY 2002 FY 2003 MAY 00 FY 2004 MAY 01

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Hand - Held Fire Extinguisher (HHFE) [MOD 11] 1-97-05-4525

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity					15000															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment						2.0														2.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		2.0		0.0		0.0		0.0		0.0		0.0		0.0		2.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Abrams Field Mods [MOD 12] 1-97-05-4534

MODELS OF SYSTEM AFFECTED: M1A1 & M1A2

DESCRIPTION/JUSTIFICATION:

Field Modifications represents funding for a continuing series of upgrades for Abrams LRU's (Line Replaceable Unit's) and/or SRU's (Shop Replaceable Unit's). Examples of these include the Fire - Control Electronics Unit (FCEU), Commander's Integrated Display (CID) and various electronic "cards" for which modification rather than replacement is both feasible and cost effective. There is no set quantity for this modification and, therefore no installation schedule in the normal sense of the term. These upgrades will be applied to fielded tanks as each is proven and approved. This program is expected to "run" as long as Abrams fielding continues.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002

Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

0 Months

FY 2003

FY 2003

PRODUCTION LEADTIME:

0 Months

FY 2004

FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Abrams Field Mods [MOD 12] 1-97-05-4534

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits		8.1																			8.1
FY 2001 -- Kits				2.2																	2.2
FY 2002 Equip -- Kits						1.6															1.6
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment		8.1		2.2		1.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0	11.9
Total Procurement Cost		8.1		2.2		1.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0	11.9

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Frontal Armor Upgrade [MOD 13] 1-98-05-4545

MODELS OF SYSTEM AFFECTED: M1 = 0; IPM1 = 0, M1A1 = 1535, M1A2 = 0 TOTAL: 1535

DESCRIPTION/JUSTIFICATION:

Description: Replacement of Frontal Armor including the cost of installation.

Justification: To increase survivability

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A (Retrofit program to put Improved Frontal Armor onto M1A1 tanks.)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Frontal Armor Upgrade [MOD 13] 1-98-05-4545

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		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						9.2														9.2
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		9.2		0.0		0.0		0.0		0.0		0.0		0.0		9.2

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Improved Turret Side Armor [MOD 14] 1-99-05-4555

MODELS OF SYSTEM AFFECTED: M1A2 = 867

DESCRIPTION/JUSTIFICATION:

Improved Turret Side Armor is a new armor design to improve RPG (Rocket Propelled Grenade) protection on the turret sides of the crew compartment. The new design will completely replace the current turret side armor and significantly enhance tank / crew operational capabilities and survivability.

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 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs				16	5	6	6	6												
Outputs								16												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contr Team ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 13 Months
 Contract Dates: FY 2002 FY 2003 FY 2004 DEC 00
 Delivery Date: FY 2002 FY 2003 FY 2004 JAN 02

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Improved Turret Side Armor [MOD 14] 1-99-05-4555

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity			16		23															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment				0.9		1.3														2.2
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					16	0.3														0.3
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	16	0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.3
Total Procurement Cost		0.0		0.9		1.6		0.0		0.0		0.0		0.0		0.0		0.0		2.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: New Mod [MOD 15] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						
Pr Yr	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002

Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

FY 2003

FY 2003

Months

PRODUCTION LEADTIME:

FY 2004

FY 2004

Months

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): New Mod [MOD 15] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	RDT&E																					
Procurement																						
Kit Quantity																						
Installation Kits																						
Installation Kits, Nonrecurring																						
Equipment																						
Equipment, Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support																						
Installation of Hardware																						
FY 2000 & Prior Equip -- Kits																						
FY 2001 -- Kits																						
FY 2002 Equip -- Kits																						
FY 2003 Equip -- Kits																						
FY 2004 Equip -- Kits																						
FY 2005 Equip -- Kits																						
FY 2006 Equip -- Kits																						
FY 2007 Equip -- Kits																						
TC Equip- Kits																						
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Eyesafe Laser Rangefinder (ESLRF) [MOD 16] 1-99-05-4563

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4139 M1A2 = 0 TOTAL = 4139

DESCRIPTION/JUSTIFICATION:

The Eyesafe Laser Rangefinder (ESLRF) is an improved laser rangefinder which is compatible with existing M1A1 tank sights (can range through obscurants to any target visible in day or night sights) and is eyesafe at any range. This enhancement allows for unit training / warfighting without the need for stringent safety precautions as had been required when employing the Nd:YAG LRF (Neodidium: Yttrium Aluminum Garnet Laser Range Finder) which can permanently damage unprotected eyes. The ESLRF is an integral part of a Force Modernization program that will ensure that the highest priority Force Package I M1A1 Units are equipped with the best A1 possible. The ESLRF represents a significant modification to the A1 fleet which will result in improved tank fightability and survivability.

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 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	33	33	34	35	33	33	34	35												
Outputs					33	33	34	35												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 2002 FY 2003 FY 2004 DEC 00
 Delivery Date: FY 2002 FY 2003 FY 2004 SEP 01

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Eyesafe Laser Rangefinder (ESLRF) [MOD 16] 1-99-05-4563

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity			135		135															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment				5.2		5.4														10.6
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					135	1.0														1.0
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	135	1.0		0.0		0.0		0.0		0.0		0.0		0.0		1.0
Total Procurement Cost		0.0		5.2		6.4		0.0		0.0		0.0		0.0		0.0		0.0		11.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Abrams Crusader Common Engine (ACCE) [MOD 17] 1-00-05-0014

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1671, M1A2 = 1174 TOTAL = 2845

DESCRIPTION/JUSTIFICATION:

The Abrams Crusader Common Engine is intended to reduce the O&S cost of the Abrams Tank engine. This mod will equip the active component Abrams fleet with a lighter, more reliable, more fuel efficient and easier to repair engine. Note that the cost of installation is included in the hardware cost.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 1Q01.....ACCOMPLISHED: 3Q01
 Critical Design Review.....PLANNED: 4Q01.....ACCOMPLISHED:
 Development Test & Eval.....PLANNED: 4Q03.....ACCOMPLISHED:
 IPR Decision (LRIP).....PLANNED: 4Q03.....ACCOMPLISHED:
 MWO Approved.....PLANNED: 3Q04.....ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	ADMINISTRATIVE LEADTIME:	24 Months	PRODUCTION LEADTIME:	24 Months
Delivery Date:	FY 2002				

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Abrams Crusader Common Engine (ACCE) [MOD 17] 1-00-05-0014

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	RDT&E																					
Procurement																						
Kit Quantity																						
Installation Kits																						
Installation Kits, Nonrecurring																						
Equipment																						
Equipment, Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support																						
Installation of Hardware																						
FY 2000 & Prior Equip -- Kits																						
FY 2001 -- Kits																						
FY 2002 Equip -- Kits																						
FY 2003 Equip -- Kits																						
FY 2004 Equip -- Kits																						
FY 2005 Equip -- Kits																						
FY 2006 Equip -- Kits																						
FY 2007 Equip -- Kits																						
TC Equip- Kits																						
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Electronics Obsolescence [MOD 18] 1-00-05-0015

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327 , M1A2 = 1174 TOTAL = 5501

DESCRIPTION/JUSTIFICATION:

The M1A1 electronics employ 1980s or earlier technology. The focal points of M1A1 electronics are the turret network box (TNB) and hull network box (HNB). Both of these components have numerous obsolete parts that are only available through cannibalization of discarded components. Cannibalization is not a viable means to sustain the Abrams until 2030. Replacing the analog TNBs and HNBs with new digital units eliminates the associated obsolescence and allows us to introduce a built-in-test capability to support the Force XXI maintenance structure. Digital TNBs and HNBs also allow future electronic growth by providing unpopulated Versa Module European (VME) card slots.

The Abrams M1A2 continuous electronics enhancement program (CEEP) is to upgrade the tank's electronics following a five (5) year cycle. Every five years obsolete components would be replaced with new components, thereby creating a moving technology baseline and resolving the obsolescence issues.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Redesigned TNB: Preliminary Design Review...PLANNED: 2Q98....ACCOMPLISHED: 2198
 Critical Design Review.....PLANNED: 2Q00....ACCOMPLISHED: 2Q00
 Developmental Test & Eval...PLANNED: 2Q00....ACCOMPLISHED: 2Q00
 IPR Decision.....PLANNED: 1Q01
 Redesigned HNB: Preliminary Design Review...PLANNED: 2Q00....ACCOMPLISHED: 2Q00
 Critical Design Review.....PLANNED: 1Q01
 Developmental Test & Eval...PLANNED: 1Q01
 IPR Decision.....PLANNED: 2Q01

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	ADMINISTRATIVE LEADTIME:	24 Months	PRODUCTION LEADTIME:	24 Months
Delivery Date:	FY 2002				

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Electronics Obsolescence [MOD 18] 1-00-05-0015

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits						20.9														20.9
Installation Kits, Nonrecurring Equipment				7.5																7.5
Equipment, Nonrecurring																				
Engineering Change Orders Data																				
Training Equipment																				
Support Equipment																				
Contractor Support						1.1														1.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		7.5		22.0		0.0		0.0		0.0		0.0		0.0		0.0		29.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Under Armor Auxiliary Power Unit (UAAPU) [MOD 19] 1-98-05-4545

MODELS OF SYSTEM AFFECTED: M1A2 = 1174

DESCRIPTION/JUSTIFICATION:

Under Armor Auxiliary Power Unit (UAAPU) provides electrical and hydraulic power during mounted surveillance, reduces main engine operating hours and vehicle fuel consumption. It provides electrical power to charge main batteries, power for the thermal management cooling system during mounted surveillance, 6 kw (214 A at 28 Vdc) electrical power and 10 kW (1650 psig at 14.1 gpm) hydraulic power. Note that the cost of installations is included in the hardware cost.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Lab Verif Test of Redesigned Turbine and Gears...PLANNED: 4Q99.....ACCOMPLISHED: 4Q99
 Mini Environmental Testing.....PLANNED: 1Q00.....ACCOMPLISHED: 1Q00
 Six Pre-production Units Delivery.....PLANNED: 1Q01.....ACCOMPLISHED: 2Q01
 Environmental Validation Retest.....PLANNED: 2Q01.....ACCOMPLISHED: 2Q01
 Four UAAPUs to Support DCX.....PLANNED: 2Q01.....ACCOMPLISHED: 2Q01
 Full Production Award.....PLANNED: 3Q01.....ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002 ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Under Armor Auxiliary Power Unit (UAAPU) [MOD 19] 1-98-05-4545

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity			20		130															
Installation Kits																				
Installation Kits, Nonrecurring				5.6		10.1														15.7
Equipment				1.8		19.4														21.2
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		7.4		29.5		0.0		0.0		0.0		0.0		0.0		0.0		36.9

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Support [MOD 20] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Whole Fleet

DESCRIPTION/JUSTIFICATION:

Abrams Support includes Matrix support which funds government salaries for Engineering, Quality Assurance, Procurement and Logistics as well as Contractor System Technical Support (STS), Total Package Fielding (TPF) and Special Tools & Test Equipment (ST&TE) for the Abrams fleet. Note: These efforts are synergically intertwined with related efforts funded in GA0750 and GA0730 (M1A2 SEP Production and Retrofit).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002

Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

0 Months

FY 2003

FY 2003

PRODUCTION LEADTIME:

0 Months

FY 2004

FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Support [MOD 20] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		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		2.3		16.5		26.7														45.5
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		2.3		16.5		26.7		0.0		0.0		0.0		0.0		0.0		0.0		45.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M1A1D Retrofit [MOD 21] 1-98-05-4542

MODELS OF SYSTEM AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 98, M1A2 = 0 TOTAL = 98

DESCRIPTION/JUSTIFICATION:

The Abrams M1A1-D is an M1A1 Abrams Main Battle Tank that has been equipped with a digital applique command and control package. The A-Kit consists of an Upgraded Tank Commander's Panel (UTCP) and associated peripheral hardware. The B-Kit is the Applique Computer display and keyboard. The C-Kit provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface Unit (DIU) to process raw tank data and format messages for transmittal to the Applique computer. Some of the tanks slated for this improvement also have to be modified to accept the Enhanced Position Locating and Reporting System, Commonly referred to as the EPLRS radio.

This digitization modification will enable the M1A1 to exchange digital command and control data in the Army's Common Operating Environment format used the the more advance M1A2 SEP tanks and other members of the combined arms team. It is a key component of the Army's plan to Field the First Digital Division in CY00.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review.....PLANNED: 2Q98.....ACCOMPLISHED: 2Q98
 Critical Design Review.....PLANNED: 3Q98.....ACCOMPLISHED: 3Q98
 Initial Operational Test & Eval...PLANNED: 4Q98.....ACCOMPLISHED: 3Q98
 IPR Production Decision.....PLANNED: 3Q99.....ACCOMPLISHED: 4Q99
 E C P Available.....PLANNED: 3Q01.....ACCOMPLISHED:
 T D P Available.....PLANNED: 3Q01

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs	98																			
Outputs	98																			

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 8 Months
 Contract Dates: FY 2002 SEP 99 FY 2003 DEC 00 FY 2004 AUG 01
 Delivery Date: FY 2002 JUL 00 FY 2003 JUN 01 FY 2004 JUN 02

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): M1A1D Retrofit [MOD 21] 1-98-05-4542

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity	98	24.9																			24.9
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits		0.1																			0.1
FY 2001 -- Kits																					
FY 2002 Equip -- Kits																					
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.1
Total Procurement Cost		25.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	25.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M829E3 Ballistic Solution [MOD 22] 1-01-05-0011

MODELS OF SYSTEM AFFECTED: M1A1 = 4327; M1A2 = 1174

DESCRIPTION/JUSTIFICATION:

This modification is for the changes to the Abrams Tank Fire Control system needed to fire the new M829E3 kinetic energy (KE) round for the 120mm main gun. This includes software changes and modifying the existing Gunner's Auxiliary Sight (GAS) to include an appropriate reticle to be able to fire the M829E3. The new ammunition capability will significantly enhance the tanks 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:
 Type Class - STD.....PLANNED: 4Q02.....ACCOMPLISHED:
 Initial Operational Capability.....PLANNED: 4Q03.....ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				
Outputs																				

METHOD OF IMPLEMENTATION:

Contract Dates:	FY 2002	ADMINISTRATIVE LEADTIME:	0 Months	PRODUCTION LEADTIME:	0 Months
Delivery Date:	FY 2002				

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): M829E3 Ballistic Solution [MOD 22] 1-01-05-0011

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.0		0.0		0.0		0.0		0.0		0.0

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

M1A1D RETROFIT (GA0720)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					55							
Gross Cost				0.9	11.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				0.9	11.6							
Initial Spares												
Total Proc Cost				0.9	11.6							
Flyaway U/C												
Wpn Sys Proc U/C					0.2							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Abrams M1A1-D is an M1A1 Abrams Main Battle Tank that has been equipped with a digital applique command and control package consisting of an A-Kit (Upgraded Tank Commander's Panel/UTCP) with peripheral hardware, a B-Kit (Applique computer display and keyboard and a C-Kit (provides far target capability by integrating a North Finding Module (NFM) and a Digital Interface Unit (DIU) to process raw tank data and format messages for transmittal to the Applique computer. Some of the tanks slated for this improvement also have to be modified to accept the Enhanced Position Locating and Reporting System, commonly referred to as the EPLRS radio. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

This digitization modification will enable the M1A1 to exchange digital command and control data in the Army's Common Operating Environment format used by the more advanced M1A2 SEP tanks and other members of the combined arms team. The M1A1-D conversion is a key component in the Army's plan to field the First Digital Division and will also significantly add to the "Useful Combat Life" of these vehicles.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES			P-1 Line Item Nomenclature: M1A1D RETROFIT (GA0720)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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. Upgraded Tank Commander's Panel (A K								4643	135	34.393			
2. Applique Computer (B-Kit)								1669	55	30.345			
3. Far Target (C-Kit)								1795	55	32.636			
4. EPLRS Integration (50% of Tanks)								390	27	14.444			
5. M1A1D Kit Installation					271								
6. Contractor Engineering					400			922					
7. Government Support (including Test)					212			683					
8. Special Tools & Test Sets								415					
9. Training Device MODs								726					
10. Total Package Fielding								404					
Total					883			11647					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
M1A1D RETROFIT (GA0720)

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. Upgraded Tank Commander's Panel (A K) FY 2002	GDLS Sterling Heights, MI	CPFF	TACOM, Warren, MI	Dec 01	Oct 02	135	34			
2. Applique Computer (B-Kit) FY 2002	PM, FBCB2 Ft. Monmouth, NJ	GFE	Ft. Monmouth, NJ	Dec 01	Oct 02	55	30			
3. Far Target (C-Kit) FY 2002	GDLS Sterling Heights, MI	CPFF	TACOM, Warren, MI	Dec 01	Oct 02	55	33			
4. EPLRS Integration (50% of Tanks) FY 2002	Various Various			var		27	14			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				16	25							
Gross Cost				58.1	102.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				58.1	102.2							
Initial Spares												
Total Proc Cost				58.1	102.2							
Flyaway U/C												
Wpn Sys Proc U/C				3.6	4.1							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program upgrades 627 M1A2 tanks to the newer SEP configuration. SEP refers to a System Enhancement Package which upgrades the M1A2's computer systems and its night vision capabilities. The SEP tank has better microprocessors; color flat panel displays, more memory capacity, better Soldier-Machine Interface (SMI), and a new open operating system designed to run the Army's Common Operating Environment (ACOE) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

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: June 2001			
WTCV Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
SEP		A				16442	16	1028	27765	25	1111			
FLIR		A				11855	16	741	18804	25	752			
M1A2 Depot-Maintenance Pre-MOD STS, TPF & ST/TS, Gov't Spt		A				3309	2	1655	22283	25	891			
						26505			33300					
Total						58111			102152					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
SEP										
FY 2001	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun-01	Dec-02	16	1028	Yes		Sep-00
FY 2002	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun-02	Dec-03	25	1111			
FLIR										
FY 2001	Various	SS/FFP	CECOM	Jan-01	Jun-02	16	741	Yes		Sep-00
FY 2002	Various	SS/FFP	CECOM	Nov-01	Jun-03	25	752			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	120	120	120	100	104							
Gross Cost	2192.9	688.1	690.1	564.7	653.3							
Less PY Adv Proc	804.3	259.9	260.7	273.8	257.5							
Plus CY Adv Proc	1064.2	260.7	374.6	172.8	194.4							
Net Proc (P-1)	2452.8	689.0	803.9	463.7	590.2							
Initial Spares	39.6	9.7	9.7	14.7	23.6							
Total Proc Cost	2492.4	698.7	813.7	478.4	613.8							
Flyaway U/C												
Wpn Sys Proc U/C		5741.4	6699.6	4637.2	5675.4							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

The Upgrade 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: ABRAMS UPGRADE PROGRAM (GA0750)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Basic Vehicle	A	327223	120	2727	262454	100	2625	301504	104	2900			
2. Armor		56814	121	470	56677	120	472	69721	120	582			
3. H/TEU													
4. Engine DECU/PROSE		19318	120	161	25319	100	253	32420	104	312			
5. Transmission		25724	120	214	21029	100	210	26921	104	259			
6. Final Drive		1908	240	8	1431	200	7	1514	208	7			
7. Fire Control		2697	120	22	3084	100	31	3226	104	31			
8. Track		5333	18720	0	4356	15600	0	4483	16224	0			
9. Roadwheels		2115	3840	1	1759	3200	1	1816	3328	1			
10. Gun Mounts		2526	60	42	3249	50	65	3379	52	65			
11. Gun		24326	120	203	19752	100	198	11697	104	112			
12. Driver's Night Viewer					477	100	5	505	104	5			
13. Basic Issue Items		989	120	8	920	100	9	972	104	9			
14. MILSTRIPS/RIK		453	120	4	676	100	7	714	104	7			
15. VIS		1213	120	10	1272	100	13	1310	104	13			
16. Special Tools & Test Sets		10689			10745			11627					
17. System Technical Support (STS)		62769			31953			55702					
18. Government Support		21127			13036			9330					
19. Auxiliary Services		1510			2534			2576					
20. Testing		6180			4450			6570					
21. Transportation (FDT)		503			425			450					
22. Total Package Fielding		11900			10106			12567					
23. II Gen FLIR		88693	120	739	74331	100	743	75769	104	729			
24. Pre Mod Depot Maintenance		16071	120	134	14645	100	146	18518	104	179			
25. GDLS SEP-S													
26. Program End Liabilities													
27. NonRecur Cost (Pilots, GFE Seed)													
28. Service Life Extension (SLE)													
Gross P-1 End Cost		690081			564680			653291					
Less: Prior Year Adv Proc		260738			273812			257489					
Net P-1 Full Funding Cost		429343			290868			395802					
Plus: P-1 CY Adv Proc		374606			172848			194438					
Initial Spares		9713			14671			23554					
Total		813662			478387			613794					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Basic Vehicle										
FY 2000	GDLS Sterling Hgts, MI	SS/FFP/M5	TACOM-Warren	Feb 00	Aug 00	120	2727	Yes		Jan 95
FY 2001	GDLS Sterling Hgts, MI	SS/FFP/M1	TACOM-Warren	Mar 01	Aug 01	100	2625	Yes		Sep 99
FY 2002	GDLS Sterling Hgts, MI	SS/FFP/M2	TACOM-Warren	Feb 02	Aug 02	104	2900	Yes		Sep 99
2. Armor										
FY 2000	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 99	Feb 00	121	470	NA		NA
FY 2001	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 00	Feb 01	120	472	NA		NA
FY 2002	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 01	Feb 02	120	582	NA		NA
4. Engine DECU/PROSE										
FY 2000	AlliedSignal Tucson, AZ	Option	TACOM-Warren	Jan 99	Feb 00	120	161	Yes		Sep 97
FY 2001	AlliedSignal Tucson, AZ	SS/FFP	TACOM-Warren	Apr 01	Apr 01	100	253	Yes		Sep 97
FY 2002	AlliedSignal Tucson, AZ	SS/FFP	TACOM-Warren	Apr 01	Feb 02	104	312	Yes		Sep 97
5. Transmission										
FY 2000	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Feb 99	Feb 00	120	214	Yes		Dec 96
FY 2001	Allison Transmission Div Indianapolis, IN	FFP/CPFF	TACOM-Warren	Dec 00	Feb 01	100	210	Yes		Jun 99

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Dec 00	Feb 02	104	259	Yes		Jun 99
6. Final Drive										
FY 2000	LOC Performance, Inc Plymouth, MI	C/FFP	TACOM-Warren	Dec 98	Feb 00	240	8	Yes		May 98
FY 2001	LOC Performance, Inc Plymouth, MI	Option	TACOM-Warren	Sep 00	Feb 01	200	7	Yes		May 98
FY 2002	LOC Performance, Inc Plymouth, MI	Option	TACOM-Warren	Feb 01	Feb 02	208	7	Yes		May 98
7. Fire Control										
FY 2000	Various	Various	TACOM-ACALA	Various	Feb 00	120	22	Yes		Various
FY 2001	Various	Various	TACOM-ACALA	Various	Feb 01	100	31	Yes		Various
FY 2002	Various	Various	TACOM-ACALA	Various	Feb 02	104	31	Yes		Various
8. Track										
FY 2000	Goodyear Tire & Rubber Akron, OH	SS-FFP	TACOM-Warren	Mar 99	Feb 00	18720	0	Yes		Dec 97
FY 2001	Goodyear Tire & Rubber Akron, OH	Option	TACOM-Warren	Sep 00	Feb 01	15600	0	Yes		Dec 97
FY 2002	Goodyear Tire & Rubber Akron, OH	Option	TACOM-Warren	Mar 01	Feb 02	16224	0	Yes		Dec 97
9. Roadwheels										
FY 2000	Red River Army Depot Texarkana, TX	WR	TACOM-Warren	Dec 99	Feb 00	3840	1	Yes		Sep 98

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

Exhibit P-5a, Budget Procurement History and Planning

Date:

June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2001	Red River Army Depot Texarkana, TX	WR	TACOM-Warren	Sep 00	Feb 01	3200	1	Yes		Sep 98
FY 2002	Red River Army Depot Texarkana, TX	WR	TACOM-Warren	Mar 01	Feb 02	3328	1	Yes		Sep 98
10. Gun Mounts										
FY 2000	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Mar 99	Feb 00	60	42	Yes		NA
FY 2001	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Jul 00	Feb 01	50	65	Yes		NA
FY 2002	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Feb 01	Feb 02	52	65	Yes		NA
11. Gun										
FY 2000	Watervliet Arsenal Watervliet, NY	WR		Mar 99	Feb 00	120	203	Yes		NA
FY 2001	Watervliet Arsenal Watervliet, NY	WR		Mar 00	Feb 01	100	198	Yes		NA
FY 2002	Watervliet Arsenal Watervliet, NY	WR		Feb 01	Feb 02	104	112	Yes		NA
12. Driver's Night Viewer										
FY 2001	CECOM NICP Fort Monmouth, NJ	REQ		Feb 01	Feb 01	100	5	Yes		NA
FY 2002	CECOM NICP Fort Monmouth, NJ	REQ		Feb 02	Feb 02	104	5	Yes		NA
13. Basic Issue Items										
FY 2000	TACOM-ACALA Rock Island, IL	WR		Feb 99	Feb 00	120	8	Yes		NA

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
ABRAMS UPGRADE PROGRAM (GA0750)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2001	TACOM-ACALA Rock Island, IL	WR		Dec 00	Feb 01	100	9	Yes		NA
FY 2002	TACOM-ACALA Rock Island, IL	WR		Feb 01	Feb 02	104	9	Yes		NA
14. MILSTRIPS/RIK										
FY 2000	NA	REQ		Various	Feb 00	120	4	Yes		NA
FY 2001	NA	REQ		Various	Feb 01	100	7	Yes		NA
FY 2002	NA	REQ		Various	Feb 02	104	7	Yes		NA
15. VIS										
FY 2000	Grumman Aerospace Corp Bethpage, NY	Option	CECOM	Aug 99	Feb 00	120	10	Yes		Sep 91
FY 2001	Grumman Aerospace Corp Bethpage, NY	REQ	CECOM	Oct 00	Feb 01	100	13	Yes		Sep 91
FY 2002	Grumman Aerospace Corp Bethpage, NY	REQ	CECOM	Oct 00	Feb 02	104	13	Yes		Sep 91
23. II Gen FLIR										
FY 2000	Various	Option	CECOM	Dec 98	Feb 00	120	739	Yes		Sep 96
FY 2001	Various	Option	CECOM	Nov 99	Feb 01	100	743	Yes		Sep 96
FY 2002	Various	Option	CECOM	Nov 00	Feb 02	104	729	Yes		Sep 96
25. GDLS SEP-S										

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES		Weapon System Type:			P - 1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2000	GDLS Sterling Hgts, MI	SS/FFP/M5	TACOM-Warren	Feb 00	Aug 00			NA		NA
FY 2001	GDLS Sterling Hgts, MI	SS/FFP/M1	TACOM-Warren	Feb 01	Aug 01			NA		NA
FY 2002	GDLS Sterling Hgts, MI	SS/FFP/M2	TACOM-Warren	Feb 02	Aug 02			NA		NA

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

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature
ABRAMS UPGRADE PROGRAM(Adv Proc) (GA0750)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc	1064.2	260.7	374.6	172.8	194.4							
Net Proc (P-1)	1064.2	260.7	374.6	172.8	194.4							
Initial Spares												
Total Proc Cost	1064.2	260.7	374.6	172.8	194.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Advance procurement for long lead materials to support procurement for the Abrams Upgrade Program. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

Without advance procurement funds, procurement of components, assemblies and raw materials to support procurement, long lead time would not be possible and would cause a break in production.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:

First System Completion Date:

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total
1. Basic Vehicle	18	6		21.6	6.2	14.1								41.8
1.1 Termination Liability				73.3	177.5	40.4	98.1							389.3
2. Armor	19	6		10.2	15.5	15.2	2.4							43.4
3. H/TEU	13	6												
4. Engine DECU/PROSE	20	6		15.8	30.2	15.7	10.5							72.1
5. Transmission	19	6		25.0	24.6	15.3	9.7							74.6
6. Final Drives	16	6		1.9	1.8	1.1	0.8							5.6
7. Fire Control	16	6		2.6	3.7	2.5	1.5							10.4
8. Track	19	6		5.3	5.4	3.4	2.3							16.4
9. Roadwheels	16	6			1.8	1.8	0.9							4.5
10. Gun Mounts	16	6		2.5	4.0	2.6	1.7							10.9
11. Gun	16	6		23.9	21.4	8.6	10.6							64.5
12. Driver's Night Viewer	13	6			0.5									0.5
13. Basic Issue Items	16	6		0.0	1.1									1.2
14. MILSTRIPS/RIK	16	6			0.7									0.7
15. VIS	16	6		1.2	1.2	1.3	0.6							4.4
26. II Gen FLIR	20	8		77.5	79.0	50.8	55.3							262.5
Total Advance Procurement			0.0	260.7	374.6	172.8	194.4	0.0	0.0	0.0	0.0	0.0	0.0	1002.6

PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.
 ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.
 PLT includes the 6 months requirement for components prior to tank delivery.

Advance Procurement Requirements Analysis-Funding (P10B)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	PLT (mos)	Quantity Per Assembly	Unit Cost	2002			2003		
				Qty	Contract Forecast Date	Total Cost Request	Qty	Contract Forecast Date	Total Cost Request
End Item Quantity:									
1. Basic Vehicle	18	1		103	Various	41.1			
1.1 Termination Liability						57.0			
2. Armor	19	1		48	Jan 02	2.4			
3. H/TEU	13								
4. Engine DECU/PROSE	20	1		103	Feb 02	10.5			
5. Transmission	19	1		103	Jul 02	9.7			
6. Final Drives	16	2		206	Dec 01	0.8			
7. Fire Control	16	1		103	Various	1.5			
8. Track	19	156		12324	Mar 02	2.3			
9. Roadwheels	16	32		3296	Jan 02	0.9			
10. Gun Mounts	16	1		52	Apr 02	1.7			
11. Gun	16	1		103	Mar 02	10.6			
12. Driver's Night Viewer	13								
13. Basic Issue Items	16								
14. MILSTRIPS/RIK	16								
15. VIS	16	1	0.0	103	Apr 02	0.6			
26. II Gen FLIR	20	1		103	Nov 01	55.3			
Total Advance Procurement						194.4			0.0

PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.
 ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.
 PLT includes the 6 months requirement for components prior to tank delivery.

Advance Procurement Requirements Analysis-Funding (P10C)

Date: June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System
ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	Pr Yrs	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total
Proposal w/o AP												
Then Year Cost	2103	688	690	565	653							4699
Constant Year Cost	2206	704	696	562	639							4807
Present Value	2743	780	740	574	626							5463
AP Proposal												
Then Year Cost	2362	689	804	464	590							4909
Constant Year Cost	2510	705	811	462	577							5065
Present Value	3233	781	863	472	565							5914
AP Savings (Difference)												
Then Year Cost	259	1	114	-101	-63							210
Constant Year Cost	304	1	115	-100	-62							258
Present Value	490	1	123	-102	-61							451

Advance Procurement Requirements Analysis-Execution (P10D)

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	PTL (mos)	2000					2001					2002		2003	
		Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
1. Basic Vehicle	18	124	Various		6.2		80	Various		14.1		103	Various		
1.1 Termination Liability					177.5					40.4					
2. Armor	19	120	Jan 00	Jan 00	15.5	15.5	120	Jan 01	Jan 01	15.2	15.2	48	Jan 02		
3. H/TEU	13														
4. Engine DECU/PROSE	20	124	Sep 00		30.2		80	Apr 01		15.7		103	Feb 02		
5. Transmission	19	124	Dec 00	Dec 00	24.6	24.6	80	Dec 00	Dec 00	15.3	15.3	103	Jul 02		
6. Final Drives	16	248	Sep 00	Sep 00	1.8	1.8	160	Feb 01	Feb 01	1.1	1.1	206	Dec 01		
7. Fire Control	16	100	Various		3.7		104	Various		2.5		103	Various		
8. Track	19	19344	Sep 00	Sep 00	5.4	5.4	12480	Mar 01	Mar 01	3.4	3.4	12324	Mar 02		
9. Roadwheels	16	3200	Sep 00	Sep 00	1.8	1.8	3328	Mar 01	Mar 01	1.8	1.8	3296	Jan 02		
10. Gun Mounts	16	62	Jul 00	Jul 00	4.0	4.0	40	Feb 01	Feb 01	2.6	2.6	52	Apr 02		
11. Gun	16	124	Mar 00	Mar 00	21.4	21.4	80	Feb 01	Feb 01	8.6	8.6	103	Mar 02		
12. Driver's Night Viewer	13	100	Feb 01	Feb 00	0.5	0.5									
13. Basic Issue Items	16	100	Dec 00	Dec 00	1.1	1.1									
14. MILSTRIPS/RIK	16	100	Various		0.7										
15. VIS	16	100	Oct 00	Oct 00	1.2	1.2	104	Oct 00	Oct 00	1.3	1.3	103	Apr 02		
26. II Gen FLIR	20	124	Nov 99	Nov 00	79.0	79.0	80	Nov 00	Nov 00	50.8	50.8	103	Nov 01		
Total Advance Procurement					374.6	156.3				172.8	100.2				

Advance Procurement Requirements Analysis-Obligation/Expenditures (P10E)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	Starting Balance	FY 00												Total Obl/Exp (Cum)	Ending Balance (Cum)
		1999			2000										
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
FY 00															
Termination Liability Schedule	177.5							0.8	1.9	2.4	3.5	5.6	12.6	26.8	150.8
Total Expenditures	374.6							0.5	0.8	0.7	0.4	1.3	1.8	5.4	369.2
FY 01															
Termination Liability Schedule	40.4														40.4
Total Expenditures	172.8														172.8
FY 02															
Termination Liability Schedule	98.1														98.1
FY 03															
Termination Liability Schedule															

Advance Procurement Requirements Analysis-Obligation/Expenditures (P10E)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	Starting Balance	FY 01												Total Obl/Exp (Cum)	Ending Balance (Cum)
		2000			2001										
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
FY 00															
Termination Liability Schedule	150.8	13.8	15.3	16.2	13.2	10.5	11.2	2.8	2.0	2.5	3.7	5.8	13.1	110.0	40.7
Total Expenditures	369.2	2.3	3.3	11.2	8.5	14.9	12.8							52.9	316.3
FY 01															
Termination Liability Schedule	40.4														40.4
Total Expenditures	172.8														172.8
FY 02															
Termination Liability Schedule	98.1														98.1
FY 03															
Termination Liability Schedule															

Advance Procurement Requirements Analysis-Obligation/Expenditures (P10E)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	Starting Balance	FY 02												Total Obl/Exp (Cum)	Ending Balance (Cum)		
		2001			2002												
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
FY 00																	
Termination Liability Schedule	40.7	14.3	15.8	10.6												40.7	
Total Expenditures	316.3																316.3
FY 01																	
Termination Liability Schedule	40.4			6.1	13.7	10.9	9.6									40.4	
Total Expenditures	172.8																172.8
FY 02																	
Termination Liability Schedule	98.1							0.8	2.1	2.5	3.7	5.9	13.2		28.2	69.9	
FY 03																	
Termination Liability Schedule																	

Advance Procurement Requirements Analysis-Obligation/Expenditures (P10E)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	Starting Balance	FY 03												Total Obl/Exp (Cum)	Ending Balance (Cum)	
		2002			2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
FY 00 Termination Liability Schedule Total Expenditures																
FY 01 Termination Liability Schedule Total Expenditures																
FY 02 Termination Liability Schedule																
FY 03 Termination Liability Schedule																

Advance Procurement Requirements Analysis-Obligation/Expenditures (P10E)

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Line Item Nomenclature / Weapon System

ABRAMS UPGRADE PROGRAM

(\$ in Millions)

	Starting Balance	FY 04												Total Obl/Exp (Cum)	Ending Balance (Cum)
		2003			2004										
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
FY 00 Termination Liability Schedule Total Expenditures															
FY 01 Termination Liability Schedule Total Expenditures															
FY 02 Termination Liability Schedule															
FY 03 Termination Liability Schedule															

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	10.6		0.2									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.6		0.2									
Initial Spares												
Total Proc Cost	10.6		0.2									
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

DESCRIPTION: This funding provides for the procurement of hardware kits, their application, and fielding support costs of \$2.0M or less for Tracked Combat Vehicles.

Justification:

Justification: BATTLEFIELD COMBAT IDENTIFICATION SYSTEM - This Battlefield Combat Identification System (BCIS) is a millimeter wave Question and Answer system that will provide identification of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. The BCIS is a designated Army Horizontal Technology Integration (HTI) initiative. Starting in FY00 BCIS are required for the M88A1 Recovery Vehicle through PM Combat ID.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	17.5	0.1	0.0	7.1	0.1							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	17.5	0.1	0.0	7.1	0.1							
Initial Spares												
Total Proc Cost	17.5	0.1	0.0	7.1	0.1							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is essential for effective maintenance on all tracked vehicles. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

Required to provide organizational maintenance personnel with equipment essential to maintain full tracked vehicles in an acceptable state of readiness. Funding of this program will establish and maintain the operational capability of the Bradley Fighting Vehicle, M1 Tank, etc.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1464.3	9.7	8.9	9.2	10.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1464.3	9.7	8.9	9.2	10.0							
Initial Spares												
Total Proc Cost	1464.3	9.7	8.9	9.2	10.0							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program provides for the Provision of Industrial Facilities (PIF). Funds are used to establish, modernize, expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement (PSR) and Modernization (MOD) 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 (LIF) for preserving equipment for the portions of Government owned plants no longer required for active production, but vital to surge or replacement effort in case of National need.

Justification:

This request supports PSR and MOD at the Lima Army Tank Plant (LATP) which supports various heavy tacked system such as the M series of tanks. The funding is used to keep Government owned equipment and facilities capable of supporting the manufacturing effort at LATP. Funding also covers work at plants in Muskegan, Mi and Scranton, Pa. Funding for LIF affords a reduction in costs at various locations by properly preserving equipment for future needs or excessing equipment no longer needed.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / TRACKED COMBAT VEHICLES			P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			Weapon System Type:			Date: June 2001			
WTCV Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			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			8501			8825			9606					
LIF			351			341			373					
Total			8852			9166			9979					

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	261.9	9.3	8.5	8.8	9.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	261.9	9.3	8.5	8.8	9.6							
Initial Spares												
Total Proc Cost	261.9	9.3	8.5	8.8	9.6							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program provides for the Provision of Industrial Facilities (PIF). Funds are needed to establish, modernize expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement (PSR) and Modernization (MOD) to Government Owned Equipment (GOE) and real property required for production and production teating of Weapons and Tracked Combat Vehicles.

Justification:

This request supports PSR to GOE and Government owned real property at Lima Army Tank Plant (LATP) and GOE at contractor owned manufacturing facilities at Muskegon MI, Scranton PA, and other locations. This request also supports 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 vertical turret lathe, and rehab of machining centers. At LATP, replacement of a powerhouse smoke stack, resurfacing of deteriorating asphalt and concrete, and replacement of deteriorated steam condensation return lines will be accomplished. Such effort helps 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:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /1/TRACKED COMBAT VEHICLES

P-1 Item Nomenclature

LAYAWAY OF INDUSTRIAL FACILITIES (GA2100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	37.5	0.3	0.4	0.3	0.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	37.5	0.3	0.4	0.3	0.4							
Initial Spares												
Total Proc Cost	37.5	0.3	0.4	0.3	0.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish, modernize, expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment, real property used in production and production testing of Weapons and Tracked Combat Vehicles. This program also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment for the portions of the plants which are no longer required for active production.

Justification:

1. The FY02-FY03 request supports an OMNIBUS effort that provides funding for the redistribution of equipment no longer required for the production of Army systems as a result of rightsizing efforts. Project also covers 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 & Armaments Command production equipment. Such actions would require a formal and separate layaway or plant clearance project. This project is to prevent unnecessary deterioration, maintenance, and storage expenses of idle items of Government-owned equipment. In addition, this project covers unplanned repairs to active equipment as situations arise. The execution of this project will not have an impact on the quality of the environment.

2. The FY02-FY03 request also is to provide contractor support in the preparation/implementation of a Scope-of-Work for the preliminary assessment of the future layaway of the M1A2 Abrams and M2A3 Bradley production lines at General Dynamics (GDLS) and United Defense Limited Partnership (UDLP), respectively. In addition, the scope of work is to include analysis against critical secondary suppliers. This SOW will enable the Department of the Army to develop rightsizing requirements and a timephased plan for these efforts.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	53410	1198	4623	1306	716							
Gross Cost	216.0	11.4	38.4	12.3	8.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	216.0	11.4	38.4	12.3	8.0							
Initial Spares												
Total Proc Cost	216.0	11.4	38.4	12.3	8.0							
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid changing of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing and elevating mechanism and a flex mount pintle. The FY 97 thru FY 05 buys the M240B configuration in the Armor Machine Gun series. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TPC).

Justification:

The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles and fortified positions.

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware (Incls Blank Firing Device)	A	3586	438	8	10137	1306	8	6266	716	9			
Hardware		19931	2678	7									
Hardware		12071	1507	8									
2.Engineering Support - In House Support		1100			908			1107					
3. Intergrated Logistics Support		91			93			77					
4. Engineering Change Proposals		761			300			150					
5. Fielding		565			357			223					
6. Engineering Studies		259			540			210					
Total		38364			12335			8033					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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
1. Hardware (Incls Blank Firing Device)										
FY 2000	FN Mfg Inc., Columbia, SC	SS/FFP-3	TACOM -Rock Island	Dec 99	Nov 00	438	8	Yes	No	
FY 2000	FN Mfg Inc., Columbia, SC	SS/FFP OPT	TACOM Rock Island	Dec 99	Feb 01	2678	7	Yes	No	
FY 2000	FN Mfg Inc., Columbia, SC	C/FFP IDIQ	TACOM Rock Island	May 01	May 02	1507	8	Yes	No	
FY 2001	FN Mfg Inc., Columbia, SC	C/FFP IDIQ	TACOM Rock Island	May 01	Mar 03	1306	8	Yes	No	
FY 2002	FN Mfg Inc., Columbia, SC	C/FFP IDIQ	TACOM Rock Island	Dec 01	Dec 03	716	8	Yes	No	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

MACHINE GUN, 5.56MM (SAW) (G12900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	70345	1525	3698	4280								
Gross Cost	180.8	5.7	11.7	16.8								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	180.8	5.7	11.7	16.8								
Initial Spares												
Total Proc Cost	180.8	5.7	11.7	16.8								
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0								

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Squad Automatic Weapon (SAW) is a lightweight (22 pounds with 200 rounds of ammunition), 5.56mm, one-man operated weapon capable of delivering a sustained volume of automatic, accurate, and lethal fire at ranges of up to 800 meters. The Army configuration was changed Oct 89 to include a spare barrel, additional heat shield and barrel bag. This weapon fills a secondary role as a light machine gun replacing most of the M60 Machine Guns.

Justification:

The sustained fire capability and increased range are urgently needed throughout infantry rifle squads in order to enhance their survivability. This lightweight, highly mobile machine gun will be used by infantry, light infantry, airborne infantry, mechanized infantry and elements of the air cavalry units, as well as non-infantry units. This procurement profile will equip selected elements of the above mentioned units on a priority basis. The Army Procurement Objective (APO) is 79,921 each as of 2 Feb 01. The required to complete quantity is 9,580 ea at a total cost of \$41.6.

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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	A	9021	3198	3	12408	4280	3						
Hardware GFM	A	1450	500	3									
Engineering Support (In-House)		395			1956								
Testing (TECOM)		100			100								
Engineering Change Proposals (ECP's)		66			1043								
ILS		225			250								
Fielding		471			1075								
TDP Maintenance		13			12								
Total		11741			16844								

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 2000	FN Co Inc Columbia SC	SS/FFP	TACOM-RI	Jan-00	Mar-00	3198	3	Y	N	
FY 2000		IDIQ/FFP	TACOM-RI	Sep-00	Jun-01	500	3	Y	N	
FY 2001		IDIQ/FFP	TACOM-RI	Dec-00	Oct-01	4280	3	Y	N	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	15953	697	1517	811	1510							
Gross Cost	254.8	15.1	22.9	14.2	28.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	254.8	15.1	22.9	14.2	28.8							
Initial Spares												
Total Proc Cost	254.8	15.1	22.9	14.2	28.8							
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The MK19, Mod 3 is a self-powered, air cooled, blowback, 40mm automatic Grenade Launcher capable of a cyclic rate of 325-375 rounds per minute. It will engage point targets up to 1,500 meters and provide suppressive fire up to 2,200 meters. Component items for this system include the 40mm assembly group 1 and the MK64 mount.

Justification:

The weapon will be mounted on the High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), the Armored Personnel Carrier family of vehicles and the M88A1 Recovery Vehicle. The MK19 is also a candidate item to go on the Interim Armored Vehicle (IAV). During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount. It will replace select M2 Cal .50 and M60 7.62mm Machine Guns in mechanized, light infantry, engineer, military police and other combat support and combat service units.

Procurement will help reduce critical supply position for high-priority readiness code (ERC)A shortages in Europe, Korea and CONUS 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: GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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	18154	1517	12	10767	811	13	21883	1510	14			
MK64 ERC A Mounts		2448			1014			3020					
MK64 ERC A Mounts		717											
2. Round Removal Tool (GFM)		147			85			185					
3. Engineering Support (In-House)		864			1020			1050					
4. Integrated Logistics Support (ILS)		194			185			400					
5. Engineering Change Proposals (ECP's)		198			813			292					
6. Testing (TECOM)								350					
7. Fielding		161			320			350					
8. Quality Assurance (ARDEC)								150					
9. Engineering Studies								650					
10. Bore Obstruction Device (BOD)								6					
11. Bags								57					
12. Arms Rack								423					
13. Special Tools								10					
Total		22883			14204			28826					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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, MK193(GI3400)					
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 2000	SACO Defense Saco, Maine	SS/FFP	TACOM - Rock Island	Dec 99	Jan 01	489	12	Yes	No	
FY 2000	SACO Defense Saco, Maine	SS/FFP	TACOM - Rock Island	Dec 99	May 01	1028	12	Yes	No	
FY 2001	General Dynamics Land Division Saco, Maine	SS/FFP	TACOM - Rock Island	Jun 01	Jan 02	811	13	Yes	No	Oct 00
FY 2002	General Dynamics Land Division Saco, Maine	SS/FFP	TACOM - Rock Island	Oct 01	Oct 02	1510	14	Yes	No	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

81MM MORTAR (ROLL) (G02200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1115											
Gross Cost	32.1				3.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	32.1				3.3							
Initial Spares												
Total Proc Cost	32.1				3.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This budget line funds the 81mm subcaliber training insert for the 120mm Battalion Mortar System. The training insert will allow the M120/M121 mortar, currently fielded to all Mechanized Infantry, Armor and Armored Cavalry units in the Army and Army National Guard, to use less expensive M800 series, 81mm ammunition in training. The program consists of a two year value engineering effort to test and qualify a domestically producible 81mm mortar tube and to produce 369 inserts. This program will result in cost avoidance of approximately \$25M per year by using lower cost 81mm ammunition in lieu of full sized (120mm) ammunition. This system supports the Legacy transition path of the Transformation Campaign Plan.

Justification:

The FY02 budget will begin the value engineering effort.
The FY03 budget will complete the value engineering effort and produce 138 inserts

ACQUISITION MANAGER : PM MORTARS
TC Date 2Q FY03

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: 81MM MORTAR (ROLL) (G02200)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE													
81mm Mortar Tube Insert													
Subtotal Hardware													
PRODUCTIONSUPPORT													
Production Engineering - ARDEC Fielding and NET													
Subtotal Production Support													
NON-RECURRING COSTS													
Value Engineering Material Change								3321					
Subtotal Non-Recurring Costs								3321					
TOTAL								3321					
Total								3321					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / WEAPONS AND OTHER COMBAT VEHICLES			Weapon System Type:			P-1 Line Item Nomenclature: 81MM MORTAR (ROLL) (G02200)				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date

81mm Mortar Tube Insert

REMARKS: Watervliet Arsenal is a Government Owned- Government Operated (GOGO) facility. Work is accomplished through yearly negotiated work orders, not contracts.

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		16464	12479	9296	3060							
Gross Cost	595.3	6.8	5.9	4.7	2.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	595.3	6.8	5.9	4.7	2.0							
Initial Spares												
Total Proc Cost	595.3	6.8	5.9	4.7	2.0							
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Roll up for the M16 Rifle family of weapons. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

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: M16 RIFLE (G14900)			Weapon System Type:			Date: June 2001			
WTCV Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
M16A1 Rifle, 5.56MM (SSN G14901)														
M16A2 Rifle, 5.56MM (SSN G14903)														
M16A4 Rifle, 5.56MM (SSN G14912)			5899	12479	0.473	4749	9296	0.511	1978	3060	0.646			
Total			5899			4749			1978					

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	11297	16464	12479	9296	3060							
Gross Cost	4.4	6.8	5.9	4.7	2.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.4	6.8	5.9	4.7	2.0							
Initial Spares												
Total Proc Cost	4.4	6.8	5.9	4.7	2.0							
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

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. A total of 116,848 M16A1's have been converted to M16A2's, lowering the "total program" and "to complete" quantities accordingly.

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: June 2001		
WTCV Cost Elements		FY 00			FY 01			FY 02			FY 03		
ID CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Rifle (Includes Slings & Magazine)		5539	12479	0	4126	9296	0	1358	3060	0			
Engineering Support (in_house)		170			134			345					
Engineering Change Proposals (ECP's)					70			20					
Integrated Logistics Support (ILS)					70			70					
Fielding		190			191			174					
Royalty Fees					158			11					
Total		5899			4749			1978					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Rifle (Includes Slings & Magazine)										
FY 2000	FMNI (M16A4) Columbia, S.C.	C/FFP	TACOM-ROCK ISLAND	MAY 00	FEB 01	12479	0	Y	NO	
FY 2001	FMNI (M16A4) Columbia, S.C.	OPTION	TACOM-ROCK ISLAND	JAN 01	AUG 02	9296	0	Y	NO	
FY 2002	FMNI (M16A4) Columbia, S.C.	OPTION	TACOM-ROCK ISLAND	JAN 02	SEP 03	3060	0	Y	NO	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

XM107, CAL. 50, SNIPER RIFLE (G01500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				230	150							
Gross Cost			0.1	3.1	2.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			0.1	3.1	2.1							
Initial Spares												
Total Proc Cost			0.1	3.1	2.1							
Flyaway U/C												
Wpn Sys Proc U/C				0.0	0.0							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The XM107 is a caliber .50, rifle. The primary mission of this rifle is to engage and defeat materiel targets out to ranges of 1,000 and 1,200 meters. The secondary role is anti-personnel and Explosive Ordnance Disposal (EOD) at shorter ranges. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

Current Army Sniper system, M24, 7.62mm, has limited range and low deposition of energy on target. The M24 is not effective against materiel targets past 800 meters. The current M24 is not effective in Explosive Ordnance Disposal. The FY 02 procurement will enable the soldier to engage and defeat materiel targets out to ranges of 1,000 and 1,200 meters.

Type Classification Date: TC STD 4Q FY 02.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / WEAPONS AND OTHER COMBAT VEHICLES			P-1 Line Item Nomenclature: XM107, CAL. 50, SNIPER RIFLE (G01500)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware	B				1975	230	9	1260	150	8			
Weapons					89	250	0	54	150	0			
Laser Protector & Anti-radiation Device													
2. ESIP QA		77			412			315					
3. Testing		33			295			200					
4. Integrated Logistical Support		35			75			70					
5. Fielding				65			100						
6. ECPs				145			150						
Total		145			3056			2149					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 2 / WEAPONS AND OTHER COMBAT VEHICLES

Weapon System Type:

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Weapons										
FY 2001	Barrett Firearms Mfg. Murfrees Boro, TN	SS/FFP	TACOM-ARDEC	JUL 02	FEB 03	230	9	YES		
FY 2002	Barrett Firearms Mfg. Murfrees Boro, TN	SS/FFP	TACOM-ARDEC	JUL 02	AUG 03	150	8	YES		
Laser Protector & Anti-radiation Device										
FY 2001	TBS	C/FFP	TACOM-ARDEC	JUL 02	DEC 02	250	0	YES		
FY 2002	TBS	C/FFP	TACOM-ARDEC	JUL 02	DEC 02	150	0	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	86785	6310	8687	9978	2800							
Gross Cost	48.5	4.1	5.1	6.1	2.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	48.5	4.1	5.1	6.1	2.4							
Initial Spares												
Total Proc Cost	48.5	4.1	5.1	6.1	2.4							
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0							

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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 and selective M16 series rifles and M9 pistols. It provides the individual soldier operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 Rifle.

Justification:

The M4 Carbine will provide soldiers with a compact, light-weight weapon that can provide better self-protection and additional firepower in close quarters. The FY01 program will allow for the uninterrupted fielding in the APO sequence up to the National Guard Enhanced Brigade. Future procurement is necessary to achieve the APO shortfall of 45,619 ea M4 Carbines.

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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	4511	8687	0.5	5227	9978	0.5	1870	2800	0.7			
2. Engineering Support (In-House)		238			441			300					
3. Quality Assurance (ARDEC)													
4. Engineering Change Proposals (ECP's)		27			40								
5. Integrated Logistics Support		75			75			70					
6. Fielding/Transportation		215			317			150					
7. Royalty Fees					34			10					
Total		5066			6134			2400					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 2000	Colt's Mfg Co. Inc Hartford, CT	SS/FFP Opt	TACOM-Rock Island	Jan 00	Jul 01	8687	1	Yes	No	
FY 2001	Colt's Mfg Co. Inc Hartford, CT	SS/FFP Opt	TACOM-Rock Island	Mar 01	Mar 02	9978	1	Yes	No	
FY 2002	Colt's Mfg Co. Inc Hartford, CT	SS/FFP OPT	TACOM-Rock Island	Nov 01	Jan 03	2800	1	Yes	No	

REMARKS:

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
5.56 CARBINE M4 (G14904)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03					L A T E R			
							Calendar Year 02												Calendar Year 03								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		MAR	APR	MAY
1. Hardware																											
	1	FY 99 & Pr	A	93.0	93.0	0.0																					0
	1	FY 99 & Pr	FMS	9.0	9.0	0.0																					0
	1	FY 99 & Pr	MC	0.9	0.9	0.0																					0
	1	FY 00	A	8.7	3.0	5.7	1.0	1.0	1.0	1.0	1.0	0.7														0	
	1	FY 00	FMS	2.0	2.0	0.0																				0	
	1	FY 01	A	10.0	0.0	10.0					0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7						0	
	1	FY 02	A	3.0	0.0	3.0		A												0.5	1.0	1.0	0.5			0	
Total				126.6	107.9	18.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.0	1.0	0.5				

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	Colt's Mfg Co. Inc, Hartford, CT	.50	1.00	2.00	18	1	INITIAL	0	3	9	12	Production leadtimes were extended to maintain continuity in production rates.
							REORDER	0	1	4	5	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost					1.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					1.1							
Initial Spares												
Total Proc Cost					1.1							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Lightweight 155mm Towed Howitzer (LW155) is a Joint USMC/Army Program. The LW155 replaces the M198 Towed Howitzer for both services. A 45% reduction in weight compared to the current system allows for greater strategic and tactical mobility while maintaining or improving range, weapon stability, accuracy, and durability. Battlefield mobility and rates of fire are also significantly improved creating a weapon that is more survivable and lethal. The LW155 includes Towed Artillery Digitization (TAD), a digital fire control system that will replace conventional fire control as the primary system. Conventional fire control will remain as a backup to the digital fire control. TAD will enable the LW155 Howitzer section 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 section to navigate, recharge the system and receive fire missions, all while moving to the next firing position. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY02 and FY03 funding supports the procurement of long lead titanium and the procurement of five Lightweight 155mm Towed Howitzers. Funds required for the procurement of long lead titanium are necessary to support titanium plates, cylinders and castings which support the manufacturing of top and bottom carriage assemblies and cradle assemblies. Initial production howitzers will be fielded to the Training and Doctrine Command in FY04. Follow on howitzers will begin fielding to the Interim Brigade Combat Teams, and then to the Active Component's "first to fight" units. Planned procurement of LW155's continues through FY09, completing the Army Inventory Objective of 273 howitzers.

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: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
LONG LEAD Titanium Sponge								582	5	116.364			
HOWITZER/DIGITAL FIRE CONTROL XM777 Towed Howitzer Towed Artillery Digitization													
GOVERNMENT FURNISHED EQUIPMENT Watervliet Cannon Assembly Conventional Fire Control													
PROGRAM MANAGEMENT SUPPORT Government Engineering Support Contracted Program Support								525					
OTHER Engineering Change Proposals Initial Spares Fielding													
Total								1107					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

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 Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Titanium Sponge FY 2002 XM777 Towed Howitzer Watervliet Cannon Assembly Conventional Fire Control	BAE SYSTEMS Barrow-in-Furness, UK	FFP	Picatinny Arsenal, NJ	Dec 01	Dec 02	5	116	No		Jun 01

REMARKS: Army Acquisition Objective is 273

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			2.0	1.8	0.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			2.0	1.8	0.7							
Initial Spares												
Total Proc Cost			2.0	1.8	0.7							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The MK19 Mod 3 is a self powered, air cooled, blowback operated, 40mm automatic grenade machine gun capable of a firing rate of 325-375 rounds per minute. It is used to engage point targets up to 1500 meters and provide suppressive fire at ranges up to 2200 meters. Since the initial fielding of the MK19, various system enhancements have been identified that further improves the system by increasing operational capabilities, improving reliability, improving readiness, improving maintainability, and improving 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 modern mount with improved traverse and elevation mechanism. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The weapon will be mounted on various vehicles and on the M3 tripod for ground mounted applications. It will replace select M2 Cal 50 and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. The light adjustable sight bracket will provide a means of mounting light accessories (laser pointer/designator, combat ID, optics) on the MK19. The sight base when attached to the MK19 will provide a mounting interface for various fire control and night vision devices. The improved firing pin sear w/ modified firing pin will increase the parts life of the sear. The adjustable secondary drive lever improves maintainability and readiness of the MK19 by lowering the level of maintenance and ease of feed slide adjustment. The modern mount will provide a more accurate machine gun mount with a vastly improved traverse and elevation mechanism and the capability of being easily transferred from vehicle mount to ground mount and back to vehicle mount in much less time.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/SerialNo:

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Modification Kit											
TBD1		1.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.0
Modern Mount											
TBD2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lightweight Adjustable Sight Bracket											
TBD3		0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Totals		2.0	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Modification Kit [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: MK19 Grenade Machine Gun

DESCRIPTION/JUSTIFICATION:

The sight base when attached to the MK19 will provide a mounting interface for various fire control and night vision devices. The improved firing pin sear w/ modified firing pin will increase the parts life of the sear. The adjustable secondary drive lever improves maintainability and readiness of the MK19 by lowering the level of maintenance and ease of feed slide adjustment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Production Contract Award 4Q00 (Actual)
 First Production Delivered 1Q02 (Planned)
 First Unit Equipped 1Q02 (Planned)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 Mar 02 FY 2003 Mar 03 FY 2004 Mar 04
 Delivery Date: FY 2002 Feb 03 FY 2003 Feb 04 FY 2004 Feb 05

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	5336		6038		0															
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		1.3		1.4																2.7
--																				
Engineering Support		0.2		0.1		0.2														0.5
Testing				0.1																0.1
Integrated Logistics Supprt				0.0		0.1														0.1
Fielding				0.1		0.5														0.6
--																				
--																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits			417		3482															
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0	417	0.0	3482	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		1.5		1.7		0.8		0.0		0.0		0.0		0.0		0.0		0.0		4.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Modern Mount [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Modern Mount is an improved mount for heavy machine guns (primarily MK19 GMG and also M2 Cal .50 MG) that will provide single control, rapid and accurate traversing and elevation of the weapon. The Mount will be capable of being easily and rapidly moved from vehicle mount to ground mount. This mount will reduce looseness between weapon and mount resulting in safe, bold, and accurate fire on targets at all engagement ranges.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Production Contract Award 2Q04 (Planned)
 First Production Delivered 1Q05 (Planned)
 First Unit Equipped 3Q05 (Planned)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 10 Months
 Contract Dates: FY 2002 FY 2003 FY 2004 Mar 04
 Delivery Date: FY 2002 FY 2003 FY 2004 Dec 04

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Modern Mount [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware																				
--																				
Engineering Support																				
Testing																				
Integrated Logistical Support																				
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.0		0.0		0.0		0.0		0.0		0.0

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: MK19 Grenade Machine Gun

DESCRIPTION/JUSTIFICATION:

The light adjustable sight bracket will provide a means of mounting light accessories (laser pointer/designator, combat ID, optics) on the MK19. The sight bracket adjusts to allow the accessory to maintain a line of sight to the target out to max range while the weapon is elevated to engage targets.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 Mar 02 FY 2003 Mar 03 FY 2004 Mar 04
 Delivery Date: FY 2002 Feb 03 FY 2003 Feb 04 FY 2004 Feb 05

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	1475		50																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		0.3		0.0																0.3
--																				
Engineering Support		0.1																		0.1
Testing				0.0																
Integrated logistical Support		0.1		0.1																0.2
Fielding																				
--																				
--																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits					1475															
FY 2001 -- Kits			50																	
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	1525	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.5		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.6

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES	P-1 Item Nomenclature M4 CARBINE MODS (GB3007)
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Program Elements for Code B Items:	Code:	Other Related Program Elements:
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	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	13.1	6.7	9.4	2.5								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.1	6.7	9.4	2.5								
Initial Spares												
Total Proc Cost	13.1	6.7	9.4	2.5								
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The M4 Carbine Modification Program provides a close combat optic, an improved buttstock and a modular weapon suite (which includes a rail system, a top carry sling, a flashlight mount and a permanently affixed back-up iron sight). It also provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine.

Justification:

The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality and allows the combat commander to custom configure weapons based upon the mission. The top sling maintains the Carbine in an upright position freeing the user's hands for other tasks. The permanent back-up rear operative, iron sight provides that capability in the event it becomes immediately necessary. The M203A1 Grenade Launcher insures compatibility with the M4 Carbine. The improved buttstock provides the rifleman an ergonomically optimized buttstock for the M4 Carbine.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Modular Weapon System											
TBD1	Operational	13.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
Close Combat Optic											
TBD2	Operational	13.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
M203 for M4 Carbine											
TBD3	Operational	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
M4 Carbine Buttstock											
TBD4	Operational	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Totals		29.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Modular Weapon System [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: 5.56 Carbine M4

DESCRIPTION/JUSTIFICATION:

The modular weapon is a system of mounting rails/methods to allow the custom configuration of M4 Carbines with ancillary items such as optics, night sights, IR laser pointers, the grenade launcher, etc. based upon mission requirements. The Modular Weapon System includes the adapter rail system, 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 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

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

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME: 0 Months

FY 2003
 FY 2003

PRODUCTION LEADTIME: 0 Months

FY 2004
 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Rail Systems Only)	42920		5400																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		11.7		1.5																13.2
Equipment, Nonrecurring																				
Engineering Support		0.7		0.1																0.8
Testing		0.0																		
Integrated Logistical Support		0.2		0.0																0.2
Fielding		0.6		0.1																0.7
Engineering Study		0.1																		0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	32920		10000																	
FY 2001 -- Kits					5400															
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	32920	0.0	10000	0.0	5400	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		13.3		1.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		15.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Close Combat Optic [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED: M4 Carbine, M68 SightReflex

DESCRIPTION/JUSTIFICATION:

The M68 Sight 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 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME: 0 Months

FY 2003

PRODUCTION LEADTIME: 0 Months

FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	55245		2539																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		12.4		0.5																12.9
Equipment, Nonrecurring																				
Engineering Support		0.7		0.0																0.7
Testing		0.2																		0.2
Integrated Logistical Support		0.1																		0.1
Fielding		0.1																		0.1
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	45584		9661																	
FY 2001 -- Kits					2539															
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	45584	0.0	9661	0.0	2539	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		13.5		0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		14.0

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M203 for M4 Carbine [MOD 3] TBD3

MODELS OF SYSTEM AFFECTED: M4 Carbine, M4A1

DESCRIPTION/JUSTIFICATION:

The Army units assigned the M4 Carbine will obtain the capability to fire the M203 Grenade Launcher (GL) with the M4 Carbine.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Developmental/Operational Tests	1Q97 (Actual)
Type Classification/Milestone III	4Q97 (Actual)
Production Contract Award	4Q97 (Actual)
First Production Hardware Delivered	3Q98 (Actual)
First Unit Equipped	4Q98 (Actual)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME: 0 Months
 FY 2003

PRODUCTION LEADTIME: 0 Months
 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): M203 for M4 Carbine [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	5152		1346																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		1.1		0.3																1.4
Equipment, Nonrecurring																				
Engineering Support		0.3																		0.3
Testing		0.0																		
Integrated Logistical Support		0.0																		
Fielding		0.0																		
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	5152		1346																	
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	5152	0.0	1346	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		1.4		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.7

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): M4 Carbine Buttstock [MOD 4] TBD4

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	34538																			
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		0.7																		0.7
Equipment, Nonrecurring																				
Engineering Support		0.1																		0.1
Study		0.0																		
Integrated Logistical Support		0.0																		
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	300		34538																	
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	300	0.0	34538	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.8

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	6.0		4.1	9.9	4.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.0		4.1	9.9	4.5							
Initial Spares												
Total Proc Cost	6.0		4.1	9.9	4.5							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

The rails will allow for the attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip and horizontal handgrip, which will provide the soldier additional capabilities to engage targets at extended ranges and during periods of limited visibility. The short barrel, when used in conjunction with the M5 Collapsible Buttstock, shortens the M249 Machine Gun by more than 10 inches enhancing the operational capability by improving MOUT maneuverability and Airborne/Air Assault jump capabilities. The Light Weight Ground Mount will reduce the weight by approximately 50 percent of the current tripod.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
M249 Feedtray Covers											
TBD1	Operational	1.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
M249 Rails/Bipod/Handguard											
TBD2	Operational	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	4.6
M249 Short Barrel											
TBD3	Operational	2.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4
Light Weight Ground Mount											
TBD4	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Closed Mods											
TBD5		6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Totals		10.2	10.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	24.8

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M249 Feedtray Covers [MOD 1] TBD1

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME:

0 Months

PRODUCTION LEADTIME:

0 Months

FY 2003
 FY 2003

FY 2004
 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	55800		24048																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		1.0		0.5																1.5
Equipment, Nonrecurring																				
Engineering Support		0.3		0.3																0.6
Testing																				
Integrated Logistical Support		0.2		0.2																0.4
Fielding		0.1		0.2																0.3
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	27000		28800																	
FY 2001 -- Kits			7200		16848															
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	27000	0.0	36000	0.0	16848	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		1.6		1.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.8

INDIVIDUAL MODIFICATION

Date: June 2001

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.

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:	Field Application	ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	3 Months
Contract Dates:	FY 2002 Mar 02	FY 2003 Mar 03		FY 2004 Mar 04	
Delivery Date:	FY 2002 Jun 02	FY 2003 Jun 03		FY 2004 Jun 04	

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity					4667															
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware						2.8														2.8
Equipment, Nonrecurring																				
Engineering Support						0.3														0.3
Testing						0.3														0.3
Integrated Logistical Support						0.1														0.1
Fielding						1.1														1.1
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		4.6		0.0		0.0		0.0		0.0		0.0		0.0		4.6

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M249 Short Barrel [MOD 3] TBD3

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

DESCRIPTION/JUSTIFICATION:

The M249 Machine Gun Short Barrel will provide a short version of the 5.56mm automatic weapon. The Short Barrel, when used in conjunction with the M5 Collapsible Buttstock, shortens the M249MG by more than 10 inches. The resultant short weapon enhances operational capability by improving MOUT maneuverability and Airborne/Air Assault jump capabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME: 0 Months

PRODUCTION LEADTIME: 0 Months

FY 2003
 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): M249 Short Barrel [MOD 3] TBD3

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	4000		12500																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		2.5		7.9																10.4
Equipment, Nonrecurring																				
Engineering Support		0.1		0.3																0.4
Testing		0.0		0.1																0.1
Integrated Logistical Support				0.3																0.3
Fielding				0.2																0.2
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits			4000																	
FY 2001 -- Kits				12500																
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0	4000	0.0	12500	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		2.6		8.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		11.4

INDIVIDUAL MODIFICATION

Date: June 2001

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

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Developmental/Operational Test	3Q03 (Planned)
Type Classification (LRP)	4Q03 (Planned)
Production Contract Award	2Q04 (Planned)
First Production Hardware Delivered	4Q04 (Planned)
First Unit Equipped	1Q05 (Planned)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Field Application	ADMINISTRATIVE LEADTIME:	9 Months	PRODUCTION LEADTIME:	7 Months
Contract Dates:	FY 2002	FY 2003		FY 2004	Feb 04
Delivery Date:	FY 2002	FY 2003		FY 2004	Sep 04

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Light Weight Ground Mount [MOD4] TBD4

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware																				
Equipment, Nonrecurring																				
Engineering Support																				
Testing																				
Integrated Logistical Support																				
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 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		0.0		0.0		0.0		0.0		0.0		0.0

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

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: Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	8.2			0.5	0.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	8.2			0.5	0.7							
Initial Spares												
Total Proc Cost	8.2			0.5	0.7							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid change of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heatshield 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. Since the initial fielding of the M240B, various system enhancements have been identified that further improves the use of this weapon system by reducing weight, increasing functionality, and improving training capability. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles and fortified positions. System enhancements have been identified by fielded units to further improve the reliability of this weapon system. These include adopting a forward rail system to mount ancillary sighting/night vision equipment and an improved, Light Weight Tripod.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
M240B System Improvements											
TBD1		0.0	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Improved Tripod											
TBD2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Closed Mods											
NA		8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
Totals		8.2	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	9.4

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: M240B System Improvements [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles and fortified positions. System enhancements have been identified by fielded units to further improve the reliability of this weapon system. These include adopting a forward rail system to mount ancillary sighting/night vision equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Production Contract Award Jun 01 (Planned)
 First Production Hardware Delivered Dec 01 (Planned)
 First Unit Equipped Mar 02 (Planned)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				
Outputs																				

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 8 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2002 Jan 02 FY 2003 FY 2004
 Delivery Date: FY 2002 June 02 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	RDT&E																					
Procurement																						
Kit Quantity			1428		2142																	
Installation Kits																						
Installation Kits, Nonrecurring																						
Hardware				0.3		0.4																0.7
--																						
Engineering Support				0.1		0.1																0.2
Testing																						
Integrated Logistical Support																						
Fielding				0.1		0.2																0.3
Other																						
Interim Contractor Support																						
Installation of Hardware																						
FY 2000 & Prior Equip -- Kits																						
FY 2001 -- Kits					1070																	
FY 2002 Equip -- Kits																						
FY 2003 Equip -- Kits																						
FY 2004 Equip -- Kits																						
FY 2005 Equip -- Kits																						
FY 2006 Equip -- Kits																						
FY 2007 Equip -- Kits																						
TC Equip- Kits																						
Total Installment		0.0		0.0	1070	0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.0
Total Procurement Cost		0.0		0.5		0.7		0.0		0.0		0.0		0.0		0.0		0.0				1.2

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: Improved Tripod [MOD 2] TBD2

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Light Weight Tripod 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 have a series of index marks that enable gunners to construct a range data card.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development/Operational Tests 2Q03 (Planned)
 Type Classification (STD) 4Q03 (Planned)
 Production Contract Award 2Q04 (Planned)
 First Production Hardware Delivered 4Q04 (Planned)
 First Unit Equipped 1Q05 (Planned)

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME: 5 Months
 FY 2003

PRODUCTION LEADTIME: 9 Months
 FY 2004 Mar 04
 FY 2004 Nov 05

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): Improved Tripod [MOD 2] TBD2

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	RDT&E																				
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware																					
--																					
Engineering Support																					
Testing																					
Integrated Logistical Support																					
Fielding																					
--																					
--																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits																					
FY 2001 -- Kits																					
FY 2002 Equip -- Kits																					
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits																					
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.0
Total Procurement Cost		0.0		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: June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			3.3	3.5	2.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			3.3	3.5	2.8							
Initial Spares												
Total Proc Cost			3.3	3.5	2.8							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Howitzer Improvement Program and Enhancement(HIPE)for the 155mm, M198, Medium Towed Howitzer. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY02 funding is required to meet two of the major thrusts for ForceXXI and for Army After Next (AAN) to modernize and digitize current weapon systems. The M198 Howitzer must be modernized in order to perform it's mission of general support for the light division. The modifications applied with this funding fulfill this requirement. The HIPE will greatly enhance the mobility, survivability, and responsiveness of the M198. These modifications will ensure that the M198 will continue to be a force multiplier today and in the future.

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: MHyPAK/Enhancement [MOD 1] TBD1 Block 1 Upgrade

MODELS OF SYSTEM AFFECTED: M198, 155MM Towed Howitzer

DESCRIPTION/JUSTIFICATION:

This block will add: (1) Hydraulic Power Assist Kit (HyPAK) which includes an automated lifting system for the M198 Towed Howitzer. This modification will tie into the existing system and add a hydraulic pump, filter and a solenoid box to the bottom carriage. The addition of the HyPak will not disable the existing system yet will increase survivability by substantially decreasing both emplacement and displacement times for the user by 50%. (2) Enhancements, which include battery packs for SINGARS Radio, GDU, MVS, and HyPAK, will enhance the M198 Howitzer by greatly reducing the time involved for laying the gun and obtaining firing position. The addition of Enhancements to the M198 Howitzer enables the user to emplace and shoot the M198 Howitzer without the primary power source (primer mover) present.
(2) pre-modification depot maintenance.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Materiel Change Int (HyPAK)2Q98 - Accomplished Materiel Chg Int (Enhance) 3Q00 - Accomplished
 Testing Initiated (HyPAK) 2Q99 - Accomplished Testing Initiated (Enhance)2Q01 - Accomplished
 Testing Completed (HyPAK) 4Q99 - Accomplished Testing Completed (Enhance)4Q01 - Planned
 Prod Contract Award(HyPAK) 2Q00 - Accomplished Prod Contract Awd(Enhance)1Q02 - Planned
 1st Prod Hdwr Delivery(HyPAK)2Q01-Accomplished 1st Prod Hdwr Delivery (Enhance)3Q02- Plan

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																					
Inputs		150				150															
Outputs			38	37	37	38	38	37	37												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 8 Months
 Contract Dates: FY 2002 Jan 2002 FY 2003 FY 2003 FY 2004 FY 2004
 Delivery Date: FY 2002 Nov 2002 FY 2003 FY 2003 FY 2004 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): MHyPAK/Enhancement [MOD 1] TBD1 Block 1 Upgrade

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	150	0.7	150	0.7																1.4
Installation Kits		0.2																		0.2
Installation Kits, Nonrecurring		0.1																		0.1
Equipment (Enhancement)					100	1.6														1.6
Equipment, Nonrecurring																				
Engineering Change Orders		0.4				0.1														0.5
Data		0.3																		0.3
Training Equipment																				
Support Equipment																				
Pre-Modification Depot Maint		1.6		1.6																3.2
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits			150	1.2																1.2
FY 2001 -- Kits (HyPAK)					112	1.1														1.1
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0	150	1.2	112	1.1		0.0		0.0		0.0		0.0		0.0		0.0		2.3
Total Procurement Cost		3.3		3.5		2.8		0.0		0.0		0.0		0.0		0.0		0.0		9.6

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	4.8	4.8	4.8	4.7	4.9							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.8	4.8	4.8	4.7	4.9							
Initial Spares												
Total Proc Cost	4.8	4.8	4.8	4.7	4.9							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Light Artillery System Improvement Plan (LASIP) for the 105mm, M119A1 Light Towed Howitzer. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

The 105mm M119A1 Light, Light Towed Howitzer was selected as the weapon of choice for the light forces because it was a nondevelopmental item (NDI) with growth potential. Now that 418 M119A1 howitzers have been fielded it is time to realize that growth potential. The Light Artillery System Improvement Plan (LASIP) initiates this process by correcting known deficiencies, improving reliability, availability and maintainability (RAM), and providing solutions to requests for minor operational enhancements. The LASIP was developed by the M119A1 Howitzer Improvement Team (HIT), chartered specifically to respond to improvements requested by field artillery units, the U. S. Army Field Artillery School (USAFAS) and the U.S. Army Training and Doctrine Command (TRADOC).

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
TBD1 Block 1 Upgrade											
0-00-00-0000	Operational	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5
TBD2 Block2 Upgrade											
0-00-00-0000	Operational	4.8	4.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	14.4
Totals		14.3	4.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	23.9

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: TBD1 Block 1 Upgrade [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Howitzer, Light Towed, 105mm M119A1

DESCRIPTION/JUSTIFICATION:

Retrofit Low Temp Recuperator 1-90-05-7875: The seals function only to temperature of -25F not the -50F. Improve Indirect Fire control; Upgrade M187 1-94-05-7911; The M119A1 indirect fire control system fails approximately 14 times more often than other hardware fire control systems when Operational Mode Profile (OMP) is factored. Upgrade Cam Follower Arm: preventing damage to the cam follower will improve reliability, availability and maintainability while reducing Operating and Support Costs (OSCR). Improve Firing Stays: the design and mounting clearances for the clevis pins on the rear firing stays of the firing platform make it very difficult to attach the stays to the trail during emplacement. Improve traveling Stays: The design and mounting clearances for the clevis pins on the traveling stays make it very difficult to attach the stays to the trail when preparing for towing. Modify Brake System: the new modified brake system is of commercial design which provides better brakes and has lower spares costs. Add Trail Lifting Handles: due to limited clearance, the user has requested trail lifting handles be designed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Validate Material Change 3Q90 Accomplished Deliver First Mod Kit 1Q99 Accomplished
 Critical Design Review 3Q91 Accomplished First Unit Equipped (FUE) 1Q99 Accomplished
 Complete Testing of Prototype 3Q92 Accomplished Deliver Last Mod Kit 4Q00 Accomplished
 Release Technical Data Package(TDP)1Q93 Accomplished Late Unit Equipped 4Q00 Accomplished
 Award for Modifications Kits 2Q98 Accomplished

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				
Outputs																				

METHOD OF IMPLEMENTATION: Unit Application ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2002 FY1999 FY 2003 FY2000 FY 2004 FY2001
 Delivery Date: FY 2002 FY1999 FY 2003 FY2000 FY 2004 FY2001

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): TBD1 Block 1 Upgrade [MOD 1] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		7.8																		7.8
Equipment, Nonrecurring		0.1																		0.1
Engineering Change Orders		0.1																		0.1
Data		0.6																		0.6
Training Equipment																				
Support Equipment																				
Other		0.2																		0.2
Interim Contractor Support		0.2																		0.2
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	408	0.5																		0.5
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	408	0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.5
Total Procurement Cost		9.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		9.5

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE: TBD2 Block2 Upgrade [MOD 2] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Howitzer, Light Towed, 105mm M119A1

DESCRIPTION/JUSTIFICATION:

The rammer/extractor tool currently issued was "borrowed" from M102 Howitzer which requires the base of the primed cartridge be forcefully struck by a hard rubber plunger. Modify the Elevation Clutches by replacing the current clutch design with a titanium torsion bar. This will reduce corrosion damage and lower maintenance costs. Eliminate the compensating tubes in the buffer assembly, upgrade the seals and connect the buffer hydraulically to the recuperator. Modification of firing platform will be accomplished to allow overhaul rather than replacement. Add a rollbar to allow protection of the weapon in low impact roll overs. Apply Elimination of Radioactive Light Sources (ERLS) kits to fire control.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Validate Materiel Change (MC) 3Q94 Accomplished Deliver First Mod Kit 1Q02 Planned
 Critical Design Review 3Q00 Accomplished First Unit Equipped (FUE) 1Q02 Planned
 Complete Testing of Prototype 4Q00 Accomplished Deliver Last Mod Kit 4Q03 Planned
 Release Technical Data Pkg (TDP) 1Q01 Accomplished Last Unit Equipped 1Q04 Planned
 Award Contract for Modification Kits 2Q01 Accomplished

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs				19	57	27	38	58												
Outputs					57	27	38	58												

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Unit Application ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months
 Contract Dates: FY 2002 FY1999 FY 2003 FY2000 FY 2004 FY2001
 Delivery Date: FY 2002 FY1999 FY 2003 FY2000 FY 2004 FY2001

INDIVIDUAL MODIFICATION

Date: June 2001

MODIFICATION TITLE (Cont): TBD2 Block2 Upgrade [MOD 2] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Kit Quantity	90		113		105															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		3.7		4.1		4.1														11.9
Equipment, Nonrecurring		0.2																		0.2
Engineering Change Orders		0.7		0.5		0.5														1.7
Data		0.1																		0.1
Training Equipment																				
Support Equipment		0.1																		0.1
Other																				
Interim Contractor Support				0.1		0.1														0.2
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits					90	0.1														0.1
FY 2001 -- Kits					90	0.1														0.1
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	180	0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.2
Total Procurement Cost		4.8		4.7		4.9		0.0		0.0		0.0		0.0		0.0		0.0		14.4

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

M16 RIFLE MODS (GZ2800)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	43.1	5.2	4.3	9.5	2.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	43.1	5.2	4.3	9.5	2.1							
Initial Spares												
Total Proc Cost	43.1	5.2	4.3	9.5	2.1							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality and allows the combat commander to custom configure weapons with accessories (i.e., daylight sights, laser pointers, ancillary weapons, etc.) based upon the mission. The top carry sling maintains the rifle in an upright position freeing the user's hands for other tasks. The permanent back-up, rear aperture, iron sight provides that capability in the event it becomes immediately necessary.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

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	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Modular Weapon System M16/M203											
TBD1	Operational	11.3	8.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	22.1
Close Combat Optic M16											
TBD2	Operational	10.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4
Closed Mods											
TBD3		30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9
Totals		52.6	9.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	64.4

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: Rifle, 5.56mm M16A2

DESCRIPTION/JUSTIFICATION:

The modular weapon is a system of mounting rails/methods that allows the custom configuration of M16 Rifles with accessories and ancillary items such as optics, night sights, IR aiming light, the grenade launcher, etc. based upon mission requirements in the field, without tools. The Modular Weapon System includes the adapter rail system, CQB sling and back-up iron sight. Outyear funding (FY04 thru FY06) will cover planned Modular Weapon System upgrades.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

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

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 Jan 02 FY 2003 FY 2004 Jan 04
 Delivery Date: FY 2002 Dec 02 FY 2003 FY 2004 Dec 04

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity (Rail Systems Only)	20903		17800		1200															
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		9.8		8.2		1.9														19.9
Equipment, Nonrecurring																				
Engineering Support		0.7		0.2		0.1														1.0
Testing		0.1																		0.1
Integrated Logistical Support		0.2		0.1		0.0														0.3
Fielding		0.4		0.2		0.1														0.7
Engineering Study		0.1																		0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	12903		8000																	
FY 2001 -- Kits					15000															
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	12903	0.0	8000	0.0	15000	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		11.3		8.7		2.1		0.0		0.0		0.0		0.0		0.0		0.0		22.1

INDIVIDUAL MODIFICATION

Date: June 2001

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

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

Contract Dates: FY 2002
 Delivery Date: FY 2002

ADMINISTRATIVE LEADTIME: 0 Months
 FY 2003

PRODUCTION LEADTIME: 0 Months
 FY 2004

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	47601		4961																	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		9.2		1.0																10.2
Engineering Change Proposal		0.0																		
Engineering Support		0.9		0.0																0.9
Testing		0.1																		0.1
Integrated Logistical Support		0.1																		0.1
Fielding		0.1																		0.1
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	43560		4041																	
FY 2001 -- Kits					4961															
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	43560	0.0	4041	0.0	4961	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		10.4		1.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		11.4

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	74.8	1.1	2.2	0.8	1.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	74.8	1.1	2.2	0.8	1.3							
Initial Spares												
Total Proc Cost	74.8	1.1	2.2	0.8	1.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

Funds will provide for M145 Machine Gun Optic Sights for the M249, M60 and M240B 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.

Exhibit P-40M, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
M145 Machine Gun Optic											
TBD1	Operational	4.8	0.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	6.7
Closed Mods											
TBD2		73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5
Totals		78.3	0.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	80.2

INDIVIDUAL MODIFICATION

Date: June 2001

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

MODELS OF SYSTEM AFFECTED: M249 Squad Automatic Weapon, M60 Machine Gun, M240B Machine Gun

DESCRIPTION/JUSTIFICATION:

The M145 Machine Gun Optic Program provides a 3.4x, laser hardened telescopic sight for the 5.56mm M249 Light Machine Gun, the M60 and 7.62mm M240B Medium Machine Guns. The optic sight will allow the soldier to identify and engage targets at longer ranges and at lower light levels more effectively than the existing iron sighting system. The optic sight also provides the soldier with a greater hit probability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT 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 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:	Unit Application	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	2 Months
Contract Dates:	FY 2002 Jan 02	FY 2003 Jan 03		FY 2004 Jan 04	
Delivery Date:	FY 2002 Mar 02	FY 2003 Mar 03		FY 2004 Mar 04	

INDIVIDUAL MODIFICATION

Date: June 2001

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
Quantity	5775		1318		2029															
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		3.4		0.6		1.1														5.1
Equipment, Nonrecurring																				
Engineering Support		0.9		0.1		0.1														1.1
Testing		0.3																		0.3
Integrated Logistical Support		0.1		0.0		0.0														0.1
Fielding		0.1		0.0		0.0														0.1
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	4831		944																	
FY 2001 -- Kits			791		527															
FY 2002 Equip -- Kits					1217															
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	4831	0.0	1735	0.0	1744	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		4.8		0.7		1.2		0.0		0.0		0.0		0.0		0.0		0.0		6.7

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	66.5	1.2	1.4	1.2	1.3							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	66.5	1.2	1.4	1.2	1.3							
Initial Spares												
Total Proc Cost	66.5	1.2	1.4	1.2	1.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

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

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serrial 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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	750.7	5.1	7.0	5.1	6.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	750.7	5.1	7.0	5.1	6.4							
Initial Spares												
Total Proc Cost	750.7	5.1	7.0	5.1	6.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

Justification:

The PIF funding will support upgrading and replacing 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 th 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: June 2001			
WTCV Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			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			4464			3450			3756					
LIF			2574			1655			2674					
Total			7038			5105			6430					

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	236.2	3.5	4.5	3.5	3.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	236.2	3.5	4.5	3.5	3.8							
Initial Spares												
Total Proc Cost	236.2	3.5	4.5	3.5	3.8							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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. This project supports all transition paths of the Army Transformation Campaign Plan (TCP).

Justification:

FY02/03 procures: At ATC, on-board vehicle data collection equipment for monitoring automotive and data bus performance; electronic diagnostic equipment used to troubleshoot, calibrate, set-up and repair sensors and data acquisition equipment; high speed video cameras and data recorders to capture test events; materials measurement equipment for lab testing composites, ceramics and non-ferrous material; instrumentation for high speed measurements of toxic fumes for fire extinguisher tests; instrumentation to test combat vehicle computer and diagnostic systems; and video cameras and trackers for fire control system tests. At WSMR, replacement Colbalt-60 sources at the Gamma Radiation facility used for nuclear survivability testing; continued upgrade to the Linear Accelerator which simulates high gamma spikes of a nuclear detonation used for dose rate testing of electronic components and replacement of Semiconductor Test Lab instrumentation used to test complex integrated circuits for radiation survivability/vulnerability.

Exhibit P-40C, Budget Item Justification Sheet

Date: June 2001

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 YPG, replacement instrumentation and equipment for testing WTCV systems in harsh environments including on-board collection of automotive performance data and ballistics measurements; data recording equipment for severe environments; oil analysis instrumentation; particulate characterization, dust sampling and analysis and air flow measurement devices; physical coordinate measurement machine; toxic fumes analysis instrumentation; shock and vibration control system for dynamic simulation; target control for weapon scoring and fire control testing; and amplifiers and environmental conditioning equipment for vibration 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:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

LAYAWAY OF INDUSTRIAL FACILITIES (GC2100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	47.0	1.7	2.6	1.7	2.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.0	1.7	2.6	1.7	2.7							
Initial Spares												
Total Proc Cost	47.0	1.7	2.6	1.7	2.7							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

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

At Rock Island Arsenal, the FY 2002 funding will provide for the layaway in place (LIP) of an additional 10 machines in the Army Reserve Plant (ARP) 027, and the excess of 25 machines. It will also provide for the demilling of special gages, test fixtures, special tooling (ST) and special test equipment (STE) as per Department of Defense (DoD) 4120.21-M-1, Chapter 1, Equipment Managers Services, and the layaway of manufacturing floor space in buildings 220 and 39. In FY 2003 it will provide for the LIP of an additional 10 machines in the ARP 027 and excessing of 100 machines. Per DoD 4120.21-M-1, Chapter 1, Equipment Managers Services, it will provide for demilling of special gages, test fixtures, ST, and STE. Further it will layaway additional manufacturing floor space in Building 220.

The increase in layaway funding in FY 2002-2004 is to help fund Watervliet Arsenal's "footprint" reduction plan. The project will excess 389 machines, and vacate buildings 125 and 110, for a total of 334,00 square feet of floor space.

Justification:

The funds are used for the protection and preservation of equipment and facilities no longer required for active production, but which must be retained for possible future peacetime or replenishment production needs. Included are those funds needed to cover the packaging, crating, handling, and transportation (PCH&T) costs for moving equipment to a disposal point or storage site, decontamination, and plant clearance requirements.

Exhibit P-40C, Budget Item Justification Sheet

Date:

June 2001

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:

The execution of footprint reduction programs allows the arsenals to meet the requirements of Program Budget Decision 407, to be more efficient, and to reduce their operating costs. This results in lower costs for the weapon systems produced.

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

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	56.7	3.0	3.1	3.6	4.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.7	3.0	3.1	3.6	4.3							
Initial Spares												
Total Proc Cost	56.7	3.0	3.1	3.6	4.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This line 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, and stored under contract DAAA09-99-D-0022. The funds also pay for storage, maintenance, and inspection of Industrial Plant Equipment (IPE) stored at Rock Island Arsenal, and 57 laidaway machine tools (IPE), gages, special measuring equipment, tooling and fixturing stored at Watervliet Arsenal.

Justification:

Funds are used for the 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. The increase in funding in FY 2002 reflects increased maintenance costs at Hawthorne Army Depot and Rock Island Arsenal. Decreased Industrial Preparedness Operations (IPO) funding in FYs 2003-2005 reflects savings anticipated from footprint reduction plans at the two arsenals.

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

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: June 2001		
WTCV Cost Elements		FY 00			FY 01			FY 02			FY 03		
ID CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hawthorne Army Depot		26			38			43					
Rock Island Arsenal		1526			1696			2123					
Watervliet Arsenal		1526			1837			2104					
Total		3078			3571			4270					

Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

SMALL ARMS (SOLDIER ENH PROG) (GC0076)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	12.0	2.4	6.0	3.5	0.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	12.0	2.4	6.0	3.5	0.3							
Initial Spares												
Total Proc Cost	12.0	2.4	6.0	3.5	0.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program provides small arms equipment for the soldier. Funding identified in FY00/01 will provide the soldiers with the following: a Dual Mount that can be used in both the vehicular (Armament HMMWV) and ground mount application for the MK19 Grenade Machine Gun (GMG) and M2 Heavy Barrel MG; an M197 HMMWV Mount (consisting of a pintle adapter, pintle, and travel lock) which provides the capability to mount either the 7.62mm M240B or the 5.56mm M249MG on the existing weapon station of the Armament HMMWV; an M203 Enhanced Fire Control Device which provides a reliable, man-portable interface/platform capable of allowing the soldier to utilize the weapon system to achieve significantly increased first round probability of hit on point and area targets at the maximum effective range of the system; a Sniper Accessory Kit that will contain a hand held wind meter, a low profile bipod, a polarized filter for a day scope, a compact cleaning kit and an adjustable cheek piece to steady the soldiers aim (all are available as non-developmental items); the Fire Support Team Vehicle (FISTV) and the Improved TOW Vehicle (ITV) are currently equipped with a weapon mount which accepts the M60 MG (which is being replaced by the M249 MG which does not fit into the existing FISTV/ITV weapon mount). The M249 Mounting Kit for the FISTV/ITV will provide an expedient method to convert the existing weapon mount to accept the M249 MG. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The Dual Mount will be fielded to scout platoons enabling them to install or switch weapons quickly in the event one vehicle goes down. Quantities have been increased to allow fielding to Infantry Anti-Armor and Military Police units. The system corrects the shortcomings of the current MK64 system allowing for bold and accurate traverse and elevation, further range (elevation) for the MK19, recoil attenuation of the M2 MG and capability for range card preparation. The M197 HMMWV Mount allows quick mounting of either the M240B or the M249 MG without tools and permits improved operator control of the weapon in both traverse and elevation. The M203 Fire Control Device will make the M203 weapon system quicker and more accurate to use, save ammunition and subject the user to less counterfire.

Exhibit P-40C, Budget Item Justification Sheet

Date:

June 2001

Appropriation/Budget Activity/Serial No:

Procurement of W&TCV, Army /2/WEAPONS AND OTHER COMBAT VEHICLES

P-1 Item Nomenclature

SMALL ARMS (SOLDIER ENH PROG) (GC0076)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

The Soldier Enhancement Program (SEP) was established by Congress to provide essential equipment for the individual soldier such as the Sniper Accessory Kit. Tasks under SEP are accomplished in an expedited manner. The M249 Mounting Kit for the FISTV/ITV enables the existing weapon mount to readily accept the M249MG.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / WEAPONS AND OTHER COMBAT VEHICLES			P-1 Line Item Nomenclature: SMALL ARMS (SOLDIER ENH PROG) (GC0076)			Weapon System Type:			Date: June 2001		
WTCV Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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													
MK93 MOD 1 Dual Mount	A	581	399	1									
HMMWV Mount M998	A	737	660	1									
HMMWV Mount M1025/1026	A	1163	2904	0									
HMMWV Mount Pintle	A	468	5000	1									
M203/M4 Fire Control					1191	1191	1						
Sniper Accessory Kit					1119	1800	1						
FISTV/ITV		700	2000	0									
2. ESIP													
Dual Mount		106											
HMMWV M249 Mount		450											
M203/M4 Fire Control					125			150					
Sniper Accessory Kit					175								
FISTV/ITV		180											
3. TESTING													
Dual Mount		100											
FISTV/ITV		200											
4. INTEGRATED LOGISTICAL SUPPORT													
Dual Mount		184											
HMMWV M249 Mount		175											
M203/M4 Fire Control					25								
Sniper Accessory Kit					71								
FISTV/ITV		55											
5. FIELDING													
Dual Mount		125											
HMMWV M249 Mount		232											
M203/M4 Fire Control					15								
Sniper Accessory Kit					54								
FISTV/ITV		40											
6. OPM-Small Arms Support (previously funded under OMA)		467			698			153					
Total		5963			3473			303					

Exhibit P-5a, Budget Procurement History and Planning

Date:
June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army / 2 / WEAPONS AND OTHER COMBAT VEHICLES

Weapon System Type:

P-1 Line Item Nomenclature:
SMALL ARMS (SOLDIER ENH PROG) (GC0076)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
MK93 MOD 1 Dual Mount FY 2000	Fraser Mfg. Port Huron, MI	C/FFP	TACOM-RI	Jun 00	May 01	399	1			
HMMWV Mount M998 FY 2000	Ramo Manufacture, Inc. Nashville, TN	C/FFP	ARDEC	Mar 00	Dec 00	660	1			
HMMWV Mount M1025/1026 FY 2000	Ma-Tech, Inc. Hebron, VA	C/FFP	TACOM-RI	Sep 00	Jun 01	2904	0			Mar 00
HMMWV Mount Pintle FY 2000	Fraser Mfg. Port Huron, MI	C/FFP	TACOM-RI	Sep 00	Mar 01	5000	1			
M203/M4 Fire Control FY 2001	TBS	C/FFP	ARDEC	Aug 01	Jul 01	1191	1			
Sniper Accessory Kit FY 2001	TBS	C/FFP	ARDEC	Aug 01	Jan 02	1800	1			
FISTV/ITV FY 2000	TBS	C/FFP	ARDEC	Jun 01	Jan 02	2000	0			Mar 00

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /3/SPARES 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 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	61.8	20.1	22.7	28.8	37.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.8	20.1	22.7	28.8	37.1							
Initial Spares												
Total Proc Cost	61.8	20.1	22.7	28.8	37.1							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Provides for procurement of spares to support initial fielding of new or modified end items.

Justification:

The funds in this account procure depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded.

Some of the WTCV systems included in this requirement are: M1 Series Tank, M88 Series Tank, Bradley Fighting Vehicle, and other Tank and Automotive systems.

End of P&R Forms Report

Who: System Admin When: 09-Jul-01 02:17 PM