

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
FY 2003 Budget Estimate

WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION

February 2002

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, \$2,248,558,000, to remain available for obligation until September 30, 2005.

Table of Contents - Procurement of W&TCV, Army

BLIN	SSN	Nomenclature	Page
1	GA5208	ABRAMS TRNG DEV MOD	1
2	G80718	BRADLEY BASE SUSTAINMENT	11
3	G80718	BRADLEY BASE SUSTAINMENT (Adv Proc)	27
4	G20900	BRADLEY FVS TRAINING DEVICES	32
5	G84600	HAB TRAINING DEVICES	36
6	GZ2500	BRADLEY FVS TRAINING DEVICES (MOD)	37
7	GB1300	ABRAMS TANK TRAINING DEVICES	45
8	G85100	INTERIM ARMORED VEHICLE (IAV) FAMILY	52
9	GB1930	CARRIER, MOD	62
10	GZ2300	FIST VEHICLE (MOD)	74
11	GZ2320	MOD OF IN-SVC EQUIP, FIST VEHICLE	80
12	GZ2400	BFVS SERIES (MOD)	81
13	GA0400	HOWITZER, MED SP FT 155MM M109A6 (MOD)	89
14	GA8010	FAASV PIP TO FLEET	95
15	GA0570	IMPROVED RECOVERY VEHICLE (M88 MOD)	101
16	GZ3250	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD)	107
17	GZ3000	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD)	113
18	GA0700	M1 ABRAMS TANK (MOD)	123
19	GA0720	M1A1D RETROFIT	145
20	GA0730	SYSTEM ENHANCEMENT PGM: SEP M1A2	148
21	GA0750	ABRAMS UPGRADE PROGRAM	154

Table of Contents - Procurement of W&TCV, Army

BLIN	SSN	Nomenclature	Page
22	GA0750	ABRAMS UPGRADE PROGRAM (Adv Proc)	163
23	GL3100	ITEMS LESS THAN \$5.0M (TCV-WTCV)	173
24	GA0050	PRODUCTION BASE SUPPORT (TCV-WTCV)	174
25	G13000	ARMOR MACHINE GUN, 7.62MM M240 SERIES	178
26	G12900	MACHINE GUN, 5.56MM (SAW)	183
27	G13400	GRENADE LAUNCHER, AUTO, 40MM, MK19-3	187
28	G02200	81MM MORTAR (ROLL)	192
29	G14900	M16 RIFLE	198
30	G01500	XM107, CAL. 50, SNIPER RIFLE	199
31	G14904	5.56 CARBINE M4	204
32	G01700	HOWITZER LT WT 155MM (T)	209
33	GB3000	MARK-19 MODIFICATIONS	210
34	GB3007	M4 CARBINE MODS	211
35	GZ1290	SQUAD AUTOMATIC WEAPON (MOD)	215
36	GZ1300	Medium Machine Guns (MODS)	216
37	GA0430	HOWITZER, TOWED, 155MM, M198 (MODS)	217
38	GC0401	M119 MODIFICATIONS	218
39	GZ2800	M16 RIFLE MODS	219
40	GC0925	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV)	220
41	GL3200	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	221
42	GC0050	PRODUCTION BASE SUPPORT (WOCV-WTCV)	222

Table of Contents - Procurement of W&TCV, Army

BLIN	SSN	Nomenclature	Page
43	GC0075	INDUSTRIAL PREPAREDNESS	226
44	GC0076	SMALL ARMS (SOLDIER ENH PROG)	227
45	GC9500	CLOSED ACCOUNT ADJUSTMENTS	228
46	GE0150	SPARES AND REPAIR PARTS (WTCV)	229

***** UNCLASSIFIED *****
DEPARTMENT OF THE ARMY
FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
President's Budget 2003

EXHIBIT P-1
DATE: 01-Feb-2002 8:48

TABLE OF CONTENTS

	PAGE
SUMMARY BY APPROPRIATION	2
SUMMARY BY ACTIVITY:	
Procurement of W&TCV, Army	3
ACTIVITY: 01 Tracked combat vehicles	4
ACTIVITY: 02 Weapons and other combat vehicles	6
ACTIVITY: 03 Spare and repair parts	8
NOMENCLATURE INDEX	9
SSN INDEX	11

***** UNCLASSIFIED *****

EXHIBIT P-1
Page 1

***** UNCLASSIFIED *****
DEPARTMENT OF THE ARMY
FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
President's Budget 2003

EXHIBIT P-1
DATE: 01-Feb-2002 8:48

APPROPRIATION SUMMARY
APPROPRIATION

Procurement of W&TCV, Army
TOTAL PROCUREMENT PROGRAM

DOLLARS IN THOUSANDS

<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
2,449,881	2,178,499	2,248,558
<u>2,449,881</u>	<u>2,178,499</u>	<u>2,248,558</u>

PAGE

3

***** UNCLASSIFIED *****

EXHIBIT P-1
Page 2

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
President's Budget 2003

EXHIBIT P-1
DATE: 01-Feb-2002 8:48

APPROPRIATION Procurement of W&TCV, Army ACTIVITY		DOLLARS IN THOUSANDS			PAGE
		FY 2001	FY 2002	FY 2003	
01	Tracked combat vehicles	2,319,988	2,065,053	2,120,038	4
02	Weapons and other combat vehicles	103,812	76,569	103,085	6
03	Spare and repair parts	26,081	36,877	25,435	8
APPROPRIATION TOTALS		2,449,881	2,178,499	2,248,558	

*** UNCLASSIFIED ***

EXHIBIT P-1
Page 3

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
President's Budget 2003

EXHIBIT P-1
DATE: 01-Feb-2002 8:48

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

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS						
			FY 2001		FY 2002		FY 2003		
			QTY	COST	QTY	COST	QTY	COST	
<i>TRACKED COMBAT VEHICLES</i>									
1	ABRAMS TRNG DEV MOD (GA5208)			5282		5506			5504
2	BRADLEY BASE SUSTAINMENT (G80718) Less: Advance Procurement (PY)	B		(423536)		(399299) (-12320)			(407237) (-10184)
3	BRADLEY BASE SUSTAINMENT (G80718) Advance Procurement (CY)			423,536		386,979			397,053
4	BRADLEY FVS TRAINING DEVICES (G20900)	A		19823		2681			
5	HAB TRAINING DEVICES (G84600)			7370		2591			
6	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	A		1189					
7	ABRAMS TANK TRAINING DEVICES (GB1300)	A		18410		8753			8532
8	INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)	A		10407		11732			12061
			447	928427	303	657990	332	811831	
	<i>SUB-ACTIVITY TOTAL</i>			<u>1,414,444</u>		<u>1,076,232</u>			<u>1,234,981</u>
<i>MODIFICATION OF TRACKED COMBAT VEHICLES</i>									
9	CARRIER, MOD (GB1930)	A		54243		48229			60305
10	FIST VEHICLE (MOD) (GZ2300)			31606		6738			6966
11	MOD OF IN-SVC EQUIP, FIST VEHICLE (GZ2320)								692
12	BFVS SERIES (MOD) (GZ2400)	A		64325		54259			35033
13	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	A		7987		5333			17361
14	FAASV PIP TO FLEET (GA8010)	A		5		9237			2944
15	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	A	29	76461	20	57710	16	50311	

*** UNCLASSIFIED ***

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
President's Budget 2003

EXHIBIT P-1
DATE: 01-Feb-2002 8:48

APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 01 Tracked combat vehicles

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS						
			FY 2001		FY 2002		FY 2003		
			QTY	COST	QTY	COST	QTY	COST	
16	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)			76295		7539			
17	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	A				3997		10021	
18	M1 ABRAMS TANK (MOD) (GA0700)	A		55476		81216		191413	
19	M1A1D RETROFIT (GA0720)			1883		11566			
20	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)		16	58111	25	99357	31	123697	
21	ABRAMS UPGRADE PROGRAM (GA0750) Less: Advance Procurement (PY)	A		(563880) (-273812)		(648246) (-256547)		(586859) (-210591)	
22	ABRAMS UPGRADE PROGRAM (GA0750) Advance Procurement (CY)			290,068 172848		391,699 194438		376,268	
	<i>SUB-ACTIVITY TOTAL</i>			<u>889,308</u>		<u>971,318</u>		<u>875,011</u>	
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>								
23	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)			7070		7593		146	
24	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			9166		9910		9900	
	<i>SUB-ACTIVITY TOTAL</i>			<u>16,236</u>		<u>17,503</u>		<u>10,046</u>	
	ACTIVITY TOTAL			<u>2,319,988</u>		<u>2,065,053</u>		<u>2,120,038</u>	

*** UNCLASSIFIED ***

EXHIBIT P-1
Page 5

*** UNCLASSIFIED ***
 DEPARTMENT OF THE ARMY
 FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
 President's Budget 2003

EXHIBIT P-1
 DATE: 01-Feb-2002 8:48

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

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2001		FY 2002		FY 2003	
			QTY	COST	QTY	COST	QTY	COST
<i>WEAPONS AND OTHER COMBAT VEHICLES</i>								
25	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	A	1,306	12335	716	7978	2,217	21334
26	MACHINE GUN, 5.56MM (SAW) (G12900)	A	4,280	16844				
27	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	A	811	15704	1,510	28626	669	16663
28	81MM MORTAR (ROLL) (G02200)					3298	138	9821
29	M16 RIFLE (G14900)	A	9,296	4749	3,060	1964	5,631	3104
30	XM107, CAL. 50, SNIPER RIFLE (G01500)				150	2134	600	8913
31	5.56 CARBINE M4 (G14904)	A	16,215	10634	2,800	2383	12,505	9155
32	HOWITZER LT WT 155MM (T) (G01700)					1099		
	<i>SUB-ACTIVITY TOTAL</i>			<u>60,266</u>		<u>47,482</u>		<u>68,990</u>
<i>MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES</i>								
33	MARK-19 MODIFICATIONS (GB3000)			2796		739		2743
34	M4 CARBINE MODS (GB3007)	A		10499				9267
35	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)			2920		4419		4119
36	Medium Machine Guns (MODS) (GZ1300)	A		491		741		
37	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)			3474		2804		
38	M119 MODIFICATIONS (GC0401)	A		4662		4853		4852
39	M16 RIFLE MODS (GZ2800)	A		4343		2085		
40	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)			2279		1252		817

*** UNCLASSIFIED ***

EXHIBIT P-1
 Page 6

*** UNCLASSIFIED ***
 DEPARTMENT OF THE ARMY
 FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
 President's Budget 2003

EXHIBIT P-1
 DATE: 01-Feb-2002 8:48

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

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2001		FY 2002		FY 2003	
			QTY	COST	QTY	COST	QTY	COST
	<i>SUB-ACTIVITY TOTAL</i>		<u>31,464</u>		<u>16,893</u>		<u>21,798</u>	
	<i>SUPPORT EQUIPMENT AND FACILITIES</i>							
41	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)			1172		1267	1265	
42	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			5743		6385	5832	
43	INDUSTRIAL PREPAREDNESS (GC0075)			2933		4241	3246	
44	SMALL ARMS (SOLDIER ENH PROG) (GC0076)			2117		301	1954	
45	CLOSED ACCOUNT ADJUSTMENTS (GC9500)			117				
	<i>SUB-ACTIVITY TOTAL</i>			<u>12,082</u>		<u>12,194</u>	<u>12,297</u>	
	ACTIVITY TOTAL			<u>103,812</u>		<u>76,569</u>	<u>103,085</u>	

*** UNCLASSIFIED ***

*** UNCLASSIFIED ***
 DEPARTMENT OF THE ARMY
 FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)
 President's Budget 2003

EXHIBIT P-1
 DATE: 01-Feb-2002 8:48

APPROPRIATION Procurement of W&TCV, Army

ACTIVITY 03 Spare and repair parts

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2001		FY 2002		FY 2003	
			QTY	COST	QTY	COST	QTY	COST
	<i>SPARES AND REPAIR PARTS</i>							
46	SPARES AND REPAIR PARTS (WTCV) (GE0150)			26081		36877		25435
	<i>SUB-ACTIVITY TOTAL</i>			<u>26,081</u>		<u>36,877</u>		<u>25,435</u>
	ACTIVITY TOTAL			<u>26,081</u>		<u>36,877</u>		<u>25,435</u>
	APPROPRIATION TOTAL			<u>2,449,881</u>		<u>2,178,499</u>		<u>2,248,558</u>

*** UNCLASSIFIED ***

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	5.5	5.8	3.4	3.4	3.5	83.0	149.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.5	8.5	2.6	5.3	5.5	5.5	5.8	3.4	3.4	3.5	83.0	149.9
Initial Spares												
Total Proc Cost	23.5	8.5	2.6	5.3	5.5	5.5	5.8	3.4	3.4	3.5	83.0	149.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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:

FY03 Procures M1A2 SEP (System Enhancement Program) upgrade kits to 10 Conduct of Fire Trainers (COFT's), 5 Tank Driver Trainer's (TDT's), 4 Advanced Gunnery Training Systems (AGTS's), 5 Close Combat Tactical Trainers (CCTT's) and software upgrades for all Maintenance Training Systems (MTS's). 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 herein are for units at FORSCOM, USAREUR, TRADOC and Army Reserve units. All of these modifications represent significantly less costly alternatives to new procurements of similar equipment.

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

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2002

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	0.9	1.0	1.0	1.1	1.2	1.0	25.1	44.1
M1A2 AGTS / Sep Modification											
1-97-05-4527	Operational	0.0	0.9	1.0	2.7	3.3	1.7	0.0	0.0	0.0	9.6
CCTT SEP Modification											
1-97-05-4529	Operational	0.1	0.4	2.2	1.6	1.3	0.4	0.0	0.0	0.0	6.0
MTS SEP Modification											
1-97-05-4530	Operational	3.1	3.3	1.4	0.2	0.2	0.2	0.8	0.8	28.4	38.4
Totals		15.3	5.3	5.5	5.5	5.8	3.4	2.0	1.8	53.5	98.1

INDIVIDUAL MODIFICATION

Date: February 2002

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				4				4				4		
Outputs	12				3			2	2			2	2			2	2			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																		35
Outputs	2			2	2													35

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:				9 Months	PRODUCTION LEADTIME:				18 Months
Contract Dates:	FY 2002	MAR 02	FY 2003	MAR 03	FY 2004	MAR 04					
Delivery Date:	FY 2002	SEP 03	FY 2003	SEP 04	FY 2004	SEP 05					

INDIVIDUAL MODIFICATION

Date: February 2002

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	0.9	4	1.0	4	1.0	4	1.1	4	1.2	3	1.0	21	6.0	63	15.5
Installation Kits		9.5																		9.5
Installation Kits, N / R																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data (Software Upgr - ACSL)																		19.1		19.1
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		0.9		1.0		1.0		1.1		1.2		1.0		25.1		44.1

INDIVIDUAL MODIFICATION

Date: February 2002

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: 1Q01 ... ACCOMPLISHED: 1Q01
 Initial Operational Test & Evaluation ... PLANNED: 2Q01 ... ACCOMPLISHED: 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							2				4				4				4				4		
Outputs													2				4				4				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																								14	
Outputs				4																				14	

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months
 Contract Dates: FY 2002 JAN 02 FY 2003 JAN 03 FY 2004 JAN 04
 Delivery Date: FY 2002 JUL 03 FY 2003 JUL 04 FY 2004 JUL 05

INDIVIDUAL MODIFICATION

Date: February 2002

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	4	2.7	4	2.1	4	1.7							14	7.5
Installation Kits, Nonrecurring				0.9						1.2										2.1
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		2.7		3.3		1.7		0.0		0.0		0.0		9.6

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: CCTT SEP Modification [MOD 3] 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:
 First DeliveryPLANNED: 1Q03

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				8				8				12	
Inputs																									
Outputs														14								8			
		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				4															38						
Outputs		12				4													38						

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 15 Months
 Contract Dates: FY 2002 MAR 02 FY 2003 MAR 03 FY 2004 MAR 04
 Delivery Date: FY 2002 DEC 03 FY 2003 DEC 04 FY 2004 DEC 05

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): CCTT SEP Modification [MOD 3] 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																				
Installation Kits					14	2.2	8	1.6	12	1.3	4	0.4							38	5.5
Installation Kits, Nonrecurring Equipment		0.1		0.4																0.5
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		1.6		1.3		0.4		0.0		0.0		0.0		6.0

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: MTS SEP Modification [MOD 4] 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 Enhancemant 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 effecively 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					1														
Outputs	2									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																		3
Outputs																		3

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

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): MTS SEP Modification [MOD 4] 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													3	4.7	
Installation Kits, Nonrecurring Equipment	3.1							0.2		0.2			0.2			0.8			0.8	8.2	13.5
Equipment, Nonrecurring																					
Engineering Change Orders: Data (Software Upgr - ACSL)																				20.2	20.2
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		3.1		3.3		1.4		0.2		0.2		0.2		0.8		0.8		28.4		38.4	38.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	643	126	140	157	142	138	131	140	100	71		1788
Gross Cost	1067.9	362.5	380.9	423.5	399.3	407.2	396.1	409.7	329.7	272.1	185.4	4634.4
Less PY Adv Proc					12.3	10.2		2.6	3.8	3.3		32.1
Plus CY Adv Proc				19.8	2.7		9.6					32.1
Net Proc (P-1)	1067.9	362.5	380.9	443.4	389.7	397.1	405.7	407.1	325.9	268.8	185.4	4634.4
Initial Spares	7.4	7.1	9.1	11.4	10.7	13.4	12.9	8.9	9.8	10.3	15.2	116.1
Total Proc Cost	1075.3	369.5	390.1	454.8	400.3	410.4	418.6	416.0	335.7	279.1	200.6	4750.5
Flyaway U/C												
Wpn Sys Proc U/C		2.9	2.7	2.8	2.7	2.9	3.1	2.9	3.3	3.8		

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 provided four years of A3 LRIP vehicles. FY01 marked the first full rate production year of the A3 configuration and the first year of a three year multiyear contract. 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:

FY03 procures the third year of full rate of production for the A3 upgrade program. This is the third year of a three year multi-year contract signed for FY's 01-03. 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 in prior years are a mix of A0 to A2's; A0 to A2 Linebackers and A2 to A3's; a mix of A0 to A2ODS's and A2 to A3's in FY99-FY01; and all A2 to A3's thereafter.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (G80718)			Weapon System Type:			Date: February 2002		
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
BRADLEY BASE SUSTAINMENT (A2)					70771	48	1475	1651			3543		
BRADLEY BASE SUSTAINMENT (A3)					383998	109	3523	398666	142	2808	406860	138	2949
Total					454769			400317			410403		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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								751
Gross Cost	775.9	92.4	80.7	70.8	1.7	3.5	3.6	0.2	2.6	0.2		1031.6
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net Proc (P-1)	775.9	92.4	80.7	70.8	1.7	3.5	3.6	0.2	2.6	0.2		1031.6
Initial Spares												
Total Proc Cost	775.9	92.4	80.7	70.8	1.7	3.5	3.6	0.2	2.6	0.2		1031.6
Flyaway U/C												
Wpn Sys Proc U/C		1.7	1.3	1.5								

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 in prior years are a mix of A0 to A2ODS's, A0 to A2 Linebackers. Quantities are A0 to A2ODS's in FY99-01.

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

Justification:

F03 procures fielding of these systems.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2) (G80716)			Weapon System Type:			Date: February 2002			
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					42501	48	886							
Other GFE (New)					5245	48	110							
Other GFE (Reman)					2719	48	57							
Contractor Engineering					8264									
National Guard Fielding					5917									
National Guard Program					64646									
BFVS Fielding					6125				1651			3543		
Total					70771				1651			3543		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	UDLP York PA	SS/FFP	TACOM	MAY-01	JUL-02	48	886	YES		

REMARKS:

FY 01 / 02 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)	Date: February 2002
--	---	------------------------

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02												L A T E R
							Calendar Year 01												Calendar Year 02												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Vehicle																															
	1	FY 00	A	60	0	60								5	10			4	4	3	7	5	4	6	6	6					
	1	FY 01	A	48	0	48							A														9	4			
	1	FY 02	NG	33	0	33																	A								
Total				141		141								5	10			4	4	3	7	5	4	6	6	6	9	4	68		

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	UDLP, York PA	8.00	15.00	25.00	6	1	INITIAL	0	7	15	22	Vehicle contract requires vehicle deliveries be made in battalion sets.
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 03 / 04 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)												Date: February 2002											
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04					L A T E R						
							Calendar Year 03												Calendar Year 04											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		MAR	APR	MAY	JUN	JUL	AUG
Vehicle																														
	1	FY 00	A	60	60	0																								
	1	FY 01	A	48	13	35						8	16	11												0				
	1	FY 02	NG	33	0	33									11	12	10									0				
Total				141	73	68						8	16	11	11	12	10													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																						
1	UDLP, York PA	8.00	15.00	25.00	6	1	INITIAL	0	7	15	22																			
							REORDER	0	0	0	0																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	138	131	140	100	71		1037
Gross Cost	292.0	270.1	300.2	352.8	397.6	403.7	392.5	409.5	327.1	271.8	185.4	3602.8
Less PY Adv Proc					12.3	10.2		2.6	3.8	3.3		32.1
Plus CY Adv Proc				19.8	2.7		9.6					32.1
Net Proc (P-1)	292.0	270.1	300.2	372.6	388.0	393.5	402.1	406.9	323.3	268.5	185.4	3602.8
Initial Spares	7.4	7.1	9.1	11.4	10.7	13.4	12.9	8.9	9.8	10.3	15.2	116.1
Total Proc Cost	299.4	277.2	309.4	384.0	398.7	406.9	415.0	415.8	333.1	278.8	200.6	3718.8
Flyaway U/C												
Wpn Sys Proc U/C		3.7	3.8	3.4	2.7	2.9	3.1	2.9	3.2	3.8		

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 provided the four years of A3 Low Rate Initial Production (LRIP) vehicles. FY01 marked the first full rate production year of the A3 configuration and was the first year of a three year multiyear contract. 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:

FY03 procures the third full rate production year for the A3 upgrade program and is the third year of a three year multiyear contact signed for FY's 01 to 03. 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 was signed for FY's 01-03.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2002

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	2007
FY2001 for FY2002	12.320						
FY2001 for FY2003	7.503						
FY2002		(12.320)					
FY2002 for FY2003		2.681					
FY2003			(10.184)				
FY2004 for FY2005				2.566			
FY2004 for FY2006				3.751			
FY2004 for FY2007				3.289			
FY2005					(2.566)		
FY2006						(3.751)	
FY2007							(3.289)

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3) (G80717)			Weapon System Type:			Date: February 2002		
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					176983	109	1624	218254	142	1537	209530	138	1519
Improved Bradley Acq Subsystem (IBAS)					34949	109	321	44874	142	317	43528	138	316
Forward Looking Infrared (FLIR)					38033	109	349	45824	142	323	40099	138	291
Other GFE					12849	109	118	15915	142	113	26001	138	189
Pre Mod Depot Maint					1154	109	11	1275	142	9	815	138	6
Sub total					263968			326142			319973		
Other Production Cost													
Engineering - Government					19955			17159			17111		
Engineering - Contractor					45892			28523			41179		
Project Management Administration					2718			2765			2806		
Reimbursable Matrix Support					3092			3288			3339		
Test and Evaluation					3421			5430			4051		
Sub total					75078			57165			68486		
Peculiar Support Equipment					8766			8602			7610		
Fielding					4953			5739			7625		
Sub Total					13719			14341			15235		
GROSS P-1 END COST					352765			397648			403694		
LESS: PRIOR YEAR ADV PROC								12320			10184		
NET P-1 FULL FUNDING COST					352765			385328			393510		
PLUS: P-1 CY ADV PROC					19823			2681					
OTHER NON P-1 COSTS													
INITIAL SPARES					11410			10657			13350		
MODS													
TOTAL					31233			13338			13350		
Total					383998			398666			406860		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	UDLP YORK PA	MY/FFP	TACOM	MAY 01	AUG 02	109	1624	YES		
FY 2002	UDLP YORK PA	MY/FFP	TACOM	MAR 02	JUL 03	142	1537	YES		
FY 2003	UDLP YORK PA	MY/FFP	TACOM	MAR 03	JUN 04	138	1519	YES		
Improved Bradley Acq Subsystem (IBAS)										
FY 2001	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	MAY 01	FEB 02	109	321	YES		
FY 2002	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	JAN 02	FEB 03	142	317	YES		
FY 2003	RTIS/DRS DALLAS TX/ CAL	MY/FFP	AMCOM	JAN 03	FEB 04	138	316	YES		
Forward Looking Infrared (FLIR)										
FY 2001	RTIS/DRS DALLAS TX/CAL	MY/FFP	CECOM	JAN 01	DEC 01	109	349	YES		
FY 2002	RTIS/DRS DALLAS TX/CAL	MY/FFP	CECOM	JAN 02	DEC 02	142	323	YES		
FY 2003	RTIS/DRS DALLAS TX/CAL	MY/FFP	CECOM	JAN 03	DEC 03	138	291	YES		

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

FY 01 / 02 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02												L A T E R			
							Calendar Year 01												Calendar Year 02															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
Vehicle																																		
	1	FY 00	A	80	0	80									6	12	9	6	5	6	7	8	7	7	7								0	
	1	FY 01	A	109	0	109						A																		12	12		85	
	1	FY 02	A	142	0	142															A												142	
	1	FY 03	A	138	0	138																											138	
	1	FY 04	A	131	0	131																											131	
	1	FY 05	A	140	0	140																											140	
	1	FY 06	A	100	0	100																											100	
	1	FY 07	A	71	0	71																											71	
Total				911		911									6	12	9	6	5	6	7	8	7	7	7				12	12		807		

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

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	UDLP, YORK PA	8.00	15.00	25.00	0	1	INITIAL	0	7	15	22	Vehicle contract requires vehicle deliveries to be in battalion sets.
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

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

Date: February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03													Fiscal Year 04												L A T E R									
							Calendar Year 03													Calendar Year 04																					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP											
Vehicle																																									
	1	FY 00	A	80	80	0																																			
	1	FY 01	A	109	24	85	15	13	6	15	14	15	7																												
	1	FY 02	A	142	0	142																																			
	1	FY 03	A	138	0	138																																			
	1	FY 04	A	131	0	131																																			
	1	FY 05	A	140	0	140																																			
	1	FY 06	A	100	0	100																																			
	1	FY 07	A	71	0	71																																			
Total				911	104	807	15	13	6	15	14	15	7																												

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	UDLP, YORK PA	8.00	15.00	25.00	0	1	INITIAL	0	7	15	22	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06												L A T E R
							Calendar Year 05												Calendar Year 06												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Vehicle																															
	1	FY 00	A	80	80	0																									
	1	FY 01	A	109	109	0																									
	1	FY 02	A	142	142	0																									
	1	FY 03	A	138	55	83	16	13	6	8	8	8	8	8	8																
	1	FY 04	A	131	0	131									11	11	11	11	11	11	10	11	11	11	11						
	1	FY 05	A	140	0	140							A																		
	1	FY 06	A	100	0	100													A							11	11	12	106		
	1	FY 07	A	71	0	71																									
Total				911	386	525	16	13	6	8	8	8	8	8	8	11	11	11	11	11	11	10	11	11	11	11	11	11	12	277	

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
		INITIAL										
1	UDLP, YORK PA	8.00	15.00	25.00	0	1		0	7	15	22	
								0	0	0	0	

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

Date: February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												L A T E R
							Calendar Year 07												Calendar Year 08												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	L	G	
Vehicle	1	FY 00	A	80	80	0																									
	1	FY 01	A	109	109	0																									
	1	FY 02	A	142	142	0																									
	1	FY 03	A	138	138	0																									
	1	FY 04	A	131	131	0																									
	1	FY 05	A	140	34	106	12	12	10	12	12	12	12	12																	
	1	FY 06	A	100	0	100									9	9	9	9	9	7	8	8	8	8	8						
	1	FY 07	A	71	0	71						A											8	8	8						
Total				911	634	277	12	12	10	12	12	12	12	12	9	9	9	9	9	7	8	8	8	8	8						
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	L	G	P
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

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	UDLP, YORK PA	8.00	15.00	25.00	0	1	INITIAL	0	7	15	22
							REORDER	0	0	0	0
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10												L A T E R
							Calendar Year 09												Calendar Year 10												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Vehicle																															
	1	FY 00	A	80	80	0																									0
	1	FY 01	A	109	109	0																									0
	1	FY 02	A	142	142	0																									0
	1	FY 03	A	138	138	0																									0
	1	FY 04	A	131	131	0																									0
	1	FY 05	A	140	140	0																									0
	1	FY 06	A	100	100	0																									0
	1	FY 07	A	71	24	47	8	8	7	8	8	8																			0
Total				911	864	47	8	8	7	8	8	8																			

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	UDLP, YORK PA	8.00	15.00	25.00	0	1	INITIAL	0	7	15	22	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	0.0	0.0	0.0	19.8	2.7	0.0	9.6	0.0	0.0	0.0		32.1
Net Proc (P-1)				19.8	2.7		9.6					32.1
Initial Spares												
Total Proc Cost				19.8	2.7		9.6					32.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Advance Procurement for Economic Order Quantity material for more economical buys than can be achieved with single year procurement.

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

Advance Procurement Requirements Analysis-Funding (P10A)				First System Award Date: April 2001		First System Completion Date: February 2002		Date: February 2002						
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)	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	138	131	140	100	71		1037
1. Vehicle Components	17					11.2								11.2
2. Improved Bradley Recovery Subsys (IBAS)	13					8.1	2.7		9.6					20.4
3. Precision Lightweight GPS Receiver (PLGR)	12					0.6								0.6
Total Advance Procurement			0.0	0.0	0.0	19.8	2.7	0.0	9.6	0.0	0.0	0.0	0.0	32.1

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

Advance Procurement Requirements Analysis -Funding (P10B)

Date:

February 2002

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							
2. Improved Bradley Recovery Subsys (IBAS)	13	1			Jan 02	2.7			
3. Precision Lightweight GPS Receiver (PLGR)	12	1							
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:

February 2002

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				38	154	250	229	91	24	10	6	798
Constant Year Cost				38	149	237	213	83	22	8	5	752
Present Value				37	142	220	191	72	18	7	4	688
AP Proposal												
Then Year Cost				37	144	219	195	77	21	8	5	702
Constant Year Cost				36	139	208	182	70	19	7	5	662
Present Value				36	132	192	163	61	16	6	4	606
AP Savings (Difference)												
Then Year Cost				-2	-11	-31	-34	-14	-4	-2	-1	-96
Constant Year Cost				-2	-10	-30	-32	-13	-3	-2	-1	-90
Present Value				-2	-10	-28	-29	-11	-3	-1	-1	-82

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)	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	Jun 01		11.2						
2. Improved Bradley Recovery Subsys (IBAS)	13					109	May 01		8.1		Jan 02				
3. Precision Lightweight GPS Receiver (PLGR)	12					109	May01		0.6						
Total Advance Procurement					0.0	0.0			19.8	0.0					

Planned advance procurement.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	7.4	2.6							262.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	225.5	12.2	14.4	7.4	2.6							262.1
Initial Spares	1.8											1.8
Total Proc Cost	227.3	12.2	14.4	7.4	2.6							263.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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. This effort includes the design, development and testing of the new A3 components for the base CCTT simulator. 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 5 HOTTs and 10 workstations for US Army Armor School and US Army Infantry School. The Bradley is a Legacy system in support of the Army 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 FVS TRAINING DEVICES (G20900)			Weapon System Type:			Date: February 2002		
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				3945	3	1315						
Maintenance Trainers	2							2591	2	1296			
CCTT Simulator Engineering	3				3425								
Total					7370			2591					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	United Defense (LP) Orlando, FL	FFP	TACOM	Jan 02	Apr 03	3	1315	yes		
Maintenance Trainers FY 2002	Research Triangle Institue Raleigh, NC	FFP	STRICOM-ORLANDO	May 02	Jul 03	2	1296	yes		

REMARKS:

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

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

Date: February 2002

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												LATE 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	JUN	JUL	AUG	SEP	
Bradley Advanced Training System (B ATS)																															
	1	FY 01	A	3	0	3																							0		
Maintenance Trainers																															
	2	FY 02	A	1	0	1																					1	0			
Total				4		4																									

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

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct			
1	United Defense (LP), Orlando, FL	1.00	.00	.00	0	1	INITIAL	0	0	0	0
							REORDER	0	0	0	0
2	Research Triangle Institue, Raleigh, NC	1.00	.00	.00	0	2	INITIAL	0	0	0	0
							REORDER	0	0	0	0
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	0.4	1.2								1.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		0.4	0.4	1.2								1.9
Initial Spares												
Total Proc Cost		0.4	0.4	1.2								1.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	18.4	8.8	8.5	3.5	2.5	5.7	4.7		80.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.2	2.5	14.3	18.4	8.8	8.5	3.5	2.5	5.7	4.7		80.1
Initial Spares												
Total Proc Cost	11.2	2.5	14.3	18.4	8.8	8.5	3.5	2.5	5.7	4.7		80.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Upgrades to the BFVS Training Devices are required every time the vehicle software changes. Current vehicle plans call for periodic software updates. 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.

Justification:

FY03 procures the Unit Conduct of Fire Trainer (UCOFT) modifications 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. UCOFTs will be modified in both Active and Reserve Components. This will insure the UCOFT will remain a viable Training Device as long as the M2A2ODS is in the inventory.

FY03 procures the Close Combat Tactical Trainer (CCTT), which 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. These kits will allow training on the M2A2ODS and M2A3. It is imperative that the CCTT simulation systems keep pace with the Army's modernization initiatives. A total of 78 A3 CCTT kits and 62 ODS kits will be procured.

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.

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

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2002

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	1.5	0.9	0.0	0.0	1.1	2.2	4.7	0.0	23.9
Precision Gunnery System											
1-99-05-4513	Operational	7.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
Unit Conduct of Fire Trainer (UCOFT) Mods											
1-99-05-4566	Operational	1.6	3.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0	10.5
Close Combat Tactical Trainer											
1-01-05-0010	Operational	0.0	8.0	4.8	7.5	2.5	1.4	0.0	0.0	0.0	24.2
Through Sight Video System (TSV) Mod											
1-99-05-4567	Unclassified	0.0	0.6	0.0	0.0	0.0	0.0	3.5	0.0	0.0	4.1
Prior Year Closed Modifications											
0-00-00-0000		5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9
Totals		28.1	18.4	8.7	8.5	3.5	2.5	5.7	4.7	0.0	80.1

INDIVIDUAL MODIFICATION

Date: February 2002

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																		0
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: February 2002

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		1.5		0.9						1.1		2.2		4.7				12.7
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		1.5		0.9		0.0		0.0		1.1		2.2		4.7		0.0		23.9

INDIVIDUAL MODIFICATION

Date: February 2002

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. Only select UCOFTs will be modified in both Active and Reserve Components based on mission need (digitization). There will be significant Operations and Support Costsavings 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 U-COFTS for the Engineering Squad Vehicle fielded in FY02.

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		5	5		4				4			
Outputs	10								10		5	5		4				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																			38		
Outputs																			38		

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:				9 Months	PRODUCTION LEADTIME:				12 Months
Contract Dates:	FY 2002 2Q02	FY 2003 4Q03					FY 2004				
Delivery Date:	FY 2002 2Q03	FY 2003 4Q04					FY 2004				

INDIVIDUAL MODIFICATION

Date: February 2002

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																	10	1.6
UCOFT Refurb ODS Engr Squad					10	3.0	4	1.0	4	1.0									18	5.0
RSRV Comp. Equip ODS Mods			10	3.9															10	3.9
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		1.6		3.9		3.0		1.0		1.0		0.0		0.0		0.0		0.0		10.5

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Close Combat Tactical Trainer [MOD 4] I-01-05-0010

MODELS OF SYSTEM AFFECTED: BFVS M2A3

DESCRIPTION/JUSTIFICATION:

This effort will develop M2A3 and M2A2ODS 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. These kits will allow training on the M2A3. A total of 78 A3 CCTT kits and 62 ODS kits will be procured.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review NA
 Critical Design Review NA
 Contractor Test & Evaluation NA
 Initial Operational Test & 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									10	10	10	10	10	10	10	10	10	10	10	10
Inputs									10	10	10	10	10	10	10	10	10	10	10	10
Outputs									10	10	10	10	10	10	10	10	10	10	10	10

	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	10	5	3	2														140
Outputs	10	5	3	2														140

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 10 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): Close Combat Tactical Trainer [MOD 4] 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 - A3			15	4.6	20	4.8	29	7.5	9	2.5	5	1.4							78	20.8
Installation Kits - ODS			62	3.4															62	3.4
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		8.0		4.8		7.5		2.5		1.4		0.0		0.0		0.0		24.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	11.7	12.1	12.9	5.8			29.7	529.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	425.2	13.3	8.4	10.4	11.7	12.1	12.9	5.8			29.7	529.4
Initial Spares	4.6											4.6
Total Proc Cost	429.8	13.3	8.4	10.4	11.7	12.1	12.9	5.8			29.7	534.0
Flyaway U/C												
Wpn Sys Proc U/C												

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

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

Justification:

FY03 procures M1A2 SEP training device improvements into the AGTS and MTS as well as Non-system Integration for the Thru Sight Video (TSV), Multiple Integrated Laser Engagement System (MILES) and Tank Weapon Gunnery Simulation System (TWGSS). Fielding of the M1A2 Main Battle Tank requires concurrent fielding of a training support package. Training on a family of training devices provides cost effective, realistic training on the M1A2 tanks.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)			Weapon System Type:			Date: February 2002		
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				8424	6	1404						
a. AGTS Production					300			200					
b. AGTS Gov't Spt.													
c. AGTS Non Recurring Cost													
AGTS SUBTOTAL					8724			200					
2. M1A2 MAINT. TRNG. SYS. (MTS)	A							3220	3	1074			
a. MTS Production								120					
b. MTS Gov't Spt.					23			90					
c. MTS Non Recurring Cost													
MTS SUBTOTAL					23			3430					
3. A2 NON SYS. INTEGR. KITS (NSI)	A												
a. NSI Production													
b. NSI Gov't Spt.					350			750			960		
c. NSI Non Recurring Cost					50			50			50		
NSI SUBTOTAL					400			800			1010		
4. M1A2 SOFTWARE UPGR. (SWU)	A												
a. SWU Production													
b. SWU Gov't Spt.					784			824			896		
c. SWU Non Recurring Cost					50			50			50		
SWU SUBTOTAL					834			874			946		
5. M1A2 SEP INTEGR (A2SI)	A												
a. A2SI Production					400			6028			9385		
b. A2SIGov't Spt.					26			400			720		
c. A2SI Non Recurring Cost													
A2SI SUBTOTAL					426			6428			10105		
Total					10407			11732			12061		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	Jan - 01	Apr - 03			yes	no	n/a
FY 2002	Lockheed Martin Orlando, FL	C-FFP	STRICOM	May - 02	Aor - 04			n/a	n/a	n/a
2. M1A2 MAINT. TRNG. SYS. (MTS)										
FY 2001	Lockheed Martin Orlando, FL	C-FFP	STRICOM	Dec - 99	Oct - 00			n/a	n/a	n/a
FY 2002	Lockheed Martin Orlando, FL	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
FY 2003	Research Triangle Ins. (RTI) Charlotte, N.C.	C-FFP	STRICOM	Feb - 03	May - 04			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

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 SEP tank.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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
FY 2002	Various	C-FFP	STRICOM	Mar - 02	MAR - 03			yes	no	n/a
FY 2003	Various	C-FFP	STRICOM	Mar - 03	MAR - 04			yes	no	n/a
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
FY 2003	Various	C-FFP	STRICOM	Feb - 03	Mar - 04			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 SEP tank.

FY 99 / 00 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)													Date: February 2002											
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 99												Fiscal Year 00												L A T E R
							Calendar Year 99												Calendar Year 00												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1. ADV. GNRY. TRNG. SYS. (AGTS)																															
	1	FY 97	A	14	12	2																								0	
	1	FY 98	A	7	0	7																								1	
	1	FY 99	A	8	0	8																								8	
	1	FY 00	A	2	0	2																								2	
	1	FY 01	A	9	3	6																								6	
	1	FY 02	A	0	0	0																								0	
2. MIA2 MAINT. TRNG. SYS. (MTS)																															
	2	FY 00	A	2	0	2																								2	
	2	FY 01	A	0	0	0																								0	
	2	FY 02	A	3	0	3																								3	
Total																														22	
				45	15	30																									

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	Lockheed Martin, Orlando, FL	1.00	1.00	2.00	0	1	INITIAL	6	2	18	20
							REORDER	2	2	6	8
2	Research Triangle Ins. (RTI), Charlotte, N.C.	1.00	1.00	2.00	0	2	INITIAL	2	2	16	18
							REORDER	2	2	6	8
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

FY 01 / 02 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)														Date: February 2002								
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02										L A T E R
							Calendar Year 01												Calendar Year 02										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
1. ADV. GNRV. TRNG. SYS. (AGTS)																													
	1	FY 97	A	14	14	0																					0		
	1	FY 98	A	7	6	1	1																				0		
	1	FY 99	A	8	0	8						2			2				2				2				0		
	1	FY 00	A	2	0	2																					2		
	1	FY 01	A	9	3	6					A																6		
	1	FY 02	A	0	0	0																					0		
2. MIA2 MAINT. TRNG. SYS. (MTS)																													
	2	FY 00	A	2	0	2												2									0		
	2	FY 01	A	0	0	0																					0		
	2	FY 02	A	3	0	3					A							1						1		1	0		
Total																													
							1						2						2				1	2			2	8	
MFR																													
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																													
MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																		
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																					
1	Lockheed Martin, Orlando, FL	1.00	1.00	2.00	0	1	INITIAL	6	2	18	20																		
							REORDER	2	2	6	8																		
2	Research Triangle Ins. (RTI), Charlotte, N.C.	1.00	1.00	2.00	0	2	INITIAL	2	2	16	18																		
							REORDER	2	2	6	8																		
							INITIAL																						
							REORDER																						
							INITIAL																						
							REORDER																						
							INITIAL																						
							REORDER																						

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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			7	447	303	332	328	320	288	94		2119
Gross Cost			22.0	928.4	658.0	811.8	980.8	806.7	761.1	816.9	2179.0	7964.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			22.0	928.4	658.0	811.8	980.8	806.7	761.1	816.9	2179.0	7964.8
Initial Spares												
Total Proc Cost			22.0	928.4	658.0	811.8	980.8	806.7	761.1	816.9	2179.0	7964.8
Flyaway U/C												
Wpn Sys Proc U/C			3.1	2.1	2.2	2.4	3.0	2.5	2.6	8.7		

Description:

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 (RV) provides force situational awareness, gathering and transmitting real time intelligence while moving throughout the battlefield in close, complex, and urban terrain.

Mobile Gun System: The Mobile Gun System (MGS) supports dismounted infantry and engages the enemy in close combat in order to clear opposition and permit rapid movement allowing the force to maintain the initiative, occupy and/or secure key objectives, and defeat strong points.

Mortar Carrier: The Mortar Carrier (MC) will support infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm 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 (CV) provides the brigade with the means to receive information and data, analyze, prepare and transmit data, and control the forces/functions carrying out combat missions.

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

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

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2002

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:

Medical Evacuation Vehicle: The Medical Evacuation Vehicle (MEV) is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases.
Antitank Guided Missile Vehicle: The Antitank Guided Missile Vehicle (ATGM) is the brigade's primary tank killing system. The ATGM reinforces the brigade's infantry battalion, reinforces the brigade reconnaissance squadron, and provides long-range direct fires.
NBC Reconnaissance Vehicle: The Nuclear, Biological, Chemical Reconnaissance Vehicle (NBCRV) provides on the move and remote near-real-time nuclear, biological and chemical detection and surveillance to supply battlefield visualization of NBC hazards.

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

Justification:

FY03 funds support the procurement of the third of six Brigade Combat Teams (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:

Production Verification Test: Apr 02 - Apr 03

Live Fire Test & Evaluation: Apr 02 - Jun 03

Initial Operational Test & Evaluation: Mar 03 - Nov 04

NBC Reconnaissance Vehicle:

Live Fire Test & Evaluation: Oct 04 - Apr 05

Production Verification Test: Sep 04 - Jun 04

Production Qualification Test: Jan 03 - Nov 03

Initial Operational Test & Evaluation: 2Q05 - 3Q05

Mobile Gun System:

Production Qualification Test: Oct 02 - Feb 04

Live Fire Test & Evaluation: Mar 04 - Oct 04

Production Verification Test: Jun 04 - Nov 04

Initial Operational Test & Evaluation: 1Q05 - 2Q05

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: February 2002		
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)					238419	166	1436	132990	91	1462	160557	114	1409
-ICV Block Improvements											28190		
-Reconnaissance Vehicle (RV)					80414	66	1219	68490	51	1343	66799	51	1310
-RV Block Improvements											12975		
-Anti-Tank Guided Missile Vehicle (ATGM)					122024	51	2393	89769	37	2427			
-ATGM Block Improvements													
-Mortar Carrier (MC)					77429	51	1519	55992	38	1474	53297	38	1403
-MC Block Improvements											7561		
-Fire Support Vehicle (FSV)					33593	24	1400	19373	14	1384	18509	14	1323
-FSV Block Improvements											2468		
-Engineer Squad Vehicle (ESV)					53643	22	2439	26059	10	2606	25370	10	2537
-ESV Block Improvements											224		
-Commander's Vehicle (CV)					54751	40	1369	42621	28	1523	76315	52	1468
-CV Block Improvements											4822		
-Medical Evacuation Vehicle (MEV)					35595	27	1319	26079	17	1535	22403	18	1245
-MEV Block Improvements											358		
-NBC Reconnaissance Vehicle (NBCRV)								36023	17	2119	8175	4	2044
-NBCRV Block Improvements											89		
-Mobile Gun System (MGS)					11003						109126	31	3521
-MGS Block Improvements													
Interim Armored Vehicles Total					706871			497396			597238		
Government Furnished Equipment/ASIOE					33167			7044			17686		
Long Range Adv Scout Surveillance Sys					49899						19348		
M707 Striker Mission Equipment Package					9945						10877		
Lightweight Laser Designator/Rangefinder					14220						4677		
Engineering Change Proposal (ECP)					5588			10924			13983		
Basic Issue Items (BII)					3451			2383			2627		
Production Verification Test					34			16375			21427		
Refurbishment of Test Vehicles								9247			10336		
Program Management Support (Govt)					24931			27154			28786		
System Fielding Support					51702			58803			52478		
Block Improvement Retrofit (Bde 1 & 2)													
Initial Spares					10000			3809			1630		
Training Devices					6800			15855			13272		
System Technical Support (STS)													
Post Deployment Software Support (PDSS)											6466		
Integrated Data Environment					3654			5000			5000		

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: February 2002			
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		
Unscheduled Modifications														
Pre-Planned Product Improvements (P3I)														
Tow Bunker Buster					5693									
Facilitization					1250			4000						
Mounted Mortar					1222									
Total					928427			657990				811831		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(5-1)	TACOM	Nov 00	Feb 02	364	1558	NA	NA	Apr 00
FY 2001	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(5-1)	TACOM	Jun 01	Aug 02	36	1728	NA	NA	
FY 2001	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(5-1)	TACOM	Aug 01	Aug 02	47	1418	NA	NA	
FY 2002	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(5-2)	TACOM	Mar 02	Feb 03	303	1642	NA	NA	
FY 2003	GM GDLS Defense Group L.L.C. Shelby Township, MI	C/FFP(5-3)	TACOM	Mar 03	Feb 04	332	1628	NA	NA	
Long Range Adv Scout Surveillance Sys										
FY 2001	Raytheon Company McKinney, TX	C/FFP(5-2)	CECOM	Apr 01	Jun 02	69	379	Yes	NA	
FY 2002	Raytheon Company McKinney, TX	C/FFP(5-3)	CECOM	Jan 02	Feb 03	51	387	Yes	NA	
FY 2003	Raytheon Company McKinney, TX	C/FFP(5-4)	CECOM	Dec 02	Mar 04	51	361	Yes	NA	
M707 Striker Mission Equipment Package										
FY 2001	Systems & Electronics, Inc. St., Louis, MO	SS/FFP	TACOM	Sep 01	Apr 02	24	122	NA	NA	
FY 2002	Systems & Electronics, Inc. St., Louis, MO	SS/FFP	TACOM	Oct 01	Dec 02	14	122	NA	NA	
FY 2003	Systems & Electronics, Inc. St., Louis, MO	SS/FFP	TACOM	Dec 02	Dec 03	14	175	NA	NA	
Lightweight Laser Designator/Rangefinder										

REMARKS: Unit cost for Interim Armored Vehicles is an average of all IAV configurations procured on delivery orders issued during the respective fiscal year.

FY03 IAV unit costs do not include Block Improvement costs.

Dates of First Delivery of LRAS, M707 MEP, and LLDR shown are contractual delivery dates. Assets will be diverted from production schedule to meet PM-BCT IAV requirements.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	Northrup Grumman Apopka, FL	SS/FFP	CECOM	Oct 01	Jan 03	30	270	YES	NA	Aug 01
FY 2002	Northrup Grumman Apopka, FL	SS/FFP	CECOM	Oct 01	Jan 03	14	270	YES		
FY 2003	Northrup Grumman Apopka, FL	SS/FFP(5-1)	CECOM	Jan 03	Feb 04	14	259	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.

FY03 IAV unit costs do not include Block Improvement costs.

Dates of First Delivery of LRAS, M707 MEP, and LLDR shown are contractual delivery dates. Assets will be diverted from production schedule to meet PM-BCT IAV requirements.

FY 02 / 03 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)														Date: February 2002														
COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	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		JUN	JUL	AUG	SEP				
Interim Armored Vehicles																																			
	1	FY 00	A	4	0	4	1	1	2																									0	
	1	FY 00	A	3	0	3											3																	0	
	1	FY 01	A	36	0	36										4	9	6	6			11											0		
	1	FY 01	A	47	0	47										2	2				10	20	13										0		
	1	FY 01	A	364	0	364					3	17	37	39	45	38	33	34	37	37	24	20											0		
	1	FY 02	A	303	0	303					A																						98		
	1	FY 03	A	332	0	332																											332		
	1	FY 04	A	328	0	328																											328		
	1	FY 05	A	320	0	320																											320		
	1	FY 06	A	288	0	288																											288		
	1	FY 07	A	94	0	94																											94		
Total																																		1460	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
MFR	PRODUCTION RATES				REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS 4 NBCRV "chassis only" delivered Oct - Dec 01. Requires integration of NBC Sensor Suite.																								
NAME/LOCATION	MIN.	1-8-5	MAX.	Prior 1 Oct			After 1 Oct																												
1 GM GDLS Defense Group L.L.C., Shelby Township, MI	1.00	53.00	63.00	0	1	INITIAL	6	1	11	12																									
						REORDER	0	5	11	16																									
						INITIAL																													
						REORDER																													
						INITIAL																													
						REORDER																													
						INITIAL																													
						REORDER																													

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
INTERIM ARMORED VEHICLE (IAV) FAMILY (G85100)

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07												L A T E R							
							Calendar Year 06												Calendar Year 07																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP								
Interim Armored Vehicles																																						
	1	FY 00	A	4	4	0																																0
	1	FY 00	A	3	3	0																																0
	1	FY 01	A	364	364	0																																0
	1	FY 01	A	36	36	0																																0
	1	FY 01	A	47	47	0																																0
	1	FY 02	A	303	303	0																																0
	1	FY 03	A	332	332	0																																0
	1	FY 04	A	328	328	0																																0
	1	FY 05	A	320	0	320	26	29	26	29	27	29	26	26	27	24	26	25																				0
	1	FY 06	A	288	0	288			A											21	23	23	26	25	25	26	26	26	26	23	18					0		
	1	FY 07	A	94	0	94																A															94	
Total				2119	1417	702	26	29	26	29	27	29	26	26	27	24	26	25	21	23	23	26	25	25	26	26	26	26	23	18						94		

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

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	1.00	53.00	63.00	0	1	INITIAL	6	1	11	12	
							REORDER	0	5	11	16	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	48.2	60.3						1028.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	747.8	55.0	62.8	54.2	48.2	60.3						1028.4
Initial Spares	3.5											3.5
Total Proc Cost	751.3	55.0	62.8	54.2	48.2	60.3						1031.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M113 Family of Vehicles (FOV) consists of over 16,000 vehicles, 16 different variants/platforms in service in U.S. Army units. The M113 FOV is approximately 40% of the tracked combat vehicle fleet in a mechanized infantry or armor heavy division. The family provides transport for troops, anti-tank, fire direction, smoke, mortar, cargo carrier and command & control systems. The fleet is required 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. The current fleet requirement for the M113 FOV is 14,273. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

BLOCK 1 (A3) MODIFICATION: FY03 completes improvements to enhance mobility and crew survivability. Included is 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 Unit Set Fielding Priority sequence, at depot or contractor facility.

T150 TRACK: FY03 procures the T150 track to improve reliability and system safety while reducing O&S costs for track, the number 2 system cost driver. The T150 is a double pin, reversible track with increased life characteristics. The M113 fleet currently utilizes the T130 track, which provides limited life between track replacements. The T150 track provides multiple times the track life of T130 track. Increased track life equates to a substantial reduction in the Operations & Support(O&S)for the M113 FOV.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2002

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	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Driver's Night Viewer											
1-94-05-4463	Oper Capability	5.2	1.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Block I											
1-84-05-4026	Oper Capability	471.0	52.3	46.5	14.9	0.0	0.0	0.0	0.0	0.0	584.7
T-150 TRACK											
0-00-00-0000	Oper Capability	0.0	0.0	0.0	45.4	0.0	0.0	0.0	0.0	0.0	45.4
Totals		865.7	54.4	48.3	60.3	0.0	0.0	0.0	0.0	0.0	1028.7

INDIVIDUAL MODIFICATION

Date: February 2002

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

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 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																						0

METHOD OF IMPLEMENTATION: 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: February 2002

MODIFICATION TITLE (Cont): Prior Year Closed Modifications [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		384.1																		384.1
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		384.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		384.1

INDIVIDUAL MODIFICATION

Date: February 2002

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

MODELS OF SYSTEM AFFECTED: M113 Family of Vehicles

DESCRIPTION/JUSTIFICATION:

FY03 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.

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	201	57	57	57	58	42	42	42	41												
Outputs		54	54	54	55	47	47	49	49	47	47	47	47								

	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																		597
Outputs																		597

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

INDIVIDUAL MODIFICATION

Date: February 2002

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	201		229		167														597	
Installation Kits		1.1		0.7		0.6														2.4
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	201	0.1																	201	0.1
FY 2001 -- Kits			229	0.1															229	0.1
FY 2002 Equip -- Kits					167	0.1													167	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	201	0.1	229	0.1	167	0.1		0.0		0.0		0.0		0.0		0.0		0.0	597	0.3
Total Procurement Cost		5.4		0.8		0.7		0.0		0.0		0.0		0.0		0.0		0.0		6.9

INDIVIDUAL MODIFICATION

Date: February 2002

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: FY03 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. Installation will occur during vehicle conversion to the A3 configuration.

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	987	57	57	57	58	42	42	42	41												
Outputs	767	59	59	59	59	47	47	49	49	47	47	47	47								

	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																		1383
Outputs																		1383

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

INDIVIDUAL MODIFICATION

Date: February 2002

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	987		229		167														1383		
Installation Kits		4.1		1.2		1.0														6.3	
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	987	1.1																	987	1.1	
FY 2001 -- Kits			229	0.1															229	0.1	
FY 2002 Equip -- Kits					167	0.1													167	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	987	1.1	229	0.1	167	0.1		0.0		0.0		0.0		0.0		0.0		0.0	1383	1.3	
Total Procurement Cost		5.2		1.3		1.1		0.0		0.0		0.0		0.0		0.0		0.0		7.6	

INDIVIDUAL MODIFICATION

Date: February 2002

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

MODELS OF SYSTEM AFFECTED: M113 Family of Vehicles

DESCRIPTION/JUSTIFICATION:

FY03 completes improvements to the M113A2 Family of Vehicles to enhance mobility and crew survivability. Included is 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 Unit Set Fielding Priority 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	1790	57	57	57	58	42	42	42	41												
Outputs	1570	59	59	59	59	47	47	49	49	47	47	47	47								

	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																		2186
Outputs																		2186

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 8 Months

Contract Dates: FY 2002 Feb02 FY 2003 FY 2004

Delivery Date: FY 2002 Oct 02 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: February 2002

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	2967		229		167														3363		
Installation Kits		332.1		30.9		25.1														388.1	
Installation Kits, Nonrecurring																					
Equipment		3.5																		3.5	
Data		42.9																		42.9	
PM Support (Govt)		5.7		2.1		3.0		7.6												18.4	
System Technical Support (Ctr)		8.1		1.0		2.0		5.9												17.0	
Other		5.0																		5.0	
Pre Conversion/Modification		27.4		11.0		9.4														47.8	
FDT		1.8		0.8		0.7		0.7												4.0	
TPF		5.4		1.1		1.0		0.7												8.2	
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	1790	39.1																	1790	39.1	
FY 2001 -- Kits			229	5.4															229	5.4	
FY 2002 Equip -- Kits					167	5.3													167	5.3	
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	1790	39.1	229	5.4	167	5.3		0.0		0.0		0.0		0.0		0.0		0.0	2186	49.8	
Total Procurement Cost		471.0		52.3		46.5		14.9		0.0		0.0		0.0		0.0		0.0		584.7	

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: T-150 TRACK [MOD 5] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: M113 FOV

DESCRIPTION/JUSTIFICATION:

T150 TRACK: FY03 procures the T150 track to improve reliability and system safety while reducing O&S costs for track, the number 2 system cost driver. The T150 is a double pin, reversible track with increased life characteristics. The M113 fleet currently utilizes the T130 track, which provides limited life between track replacements. The T150 track provides multiple times the track life of T130 track. Increased track life equates to a substantial reduction in the Operations & Support (O&S) for the M113 FOV.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

TDP Available June 02

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												188	282	282	282	282	282	287	194	
Outputs												94	188	282	282	282	282	282	287	100

	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																				2079
Outputs																				2079

METHOD OF IMPLEMENTATION:	Contractor Field Team	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	8 Months
Contract Dates:	FY 2002	FY 2003	Jan 03	FY 2004	
Delivery Date:	FY 2002	FY 2003	Aug03	FY 2004	

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): T-150 TRACK [MOD 5] 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							2079	44.6											2079	44.6
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							2079	0.8											2079	0.8
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	2079	0.8		0.0		0.0		0.0		0.0		0.0	2079	0.8
Total Procurement Cost		0.0		0.0		0.0		45.4		0.0		0.0		0.0		0.0		0.0		45.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	19	27	55		6	25						132
Gross Cost	349.2	26.5	28.1	31.6	6.7	7.0						449.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	349.2	26.5	28.1	31.6	6.7	7.0						449.1
Initial Spares	38.8											38.8
Total Proc Cost	388.0	26.5	28.1	31.6	6.7	7.0						487.9
Flyaway U/C												
Wpn Sys Proc U/C		1.0	0.5		1.1	0.3						

Description:

The Bradley Fire Support Vehicle (BFIST) consists of two variants: M7 BFIST and A3 BFIST. BFIST replaces the aging M981 Fire Support Vehicle for fire support planning, support, and execution for maneuver company commanders. The fire support team is attached to a Mechanized Infantry or Armor company and is primarily responsible for developing and executing fire support plans that enable success on the battlefield. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as other Bradley's in the maneuver units it supports. The M7 variant integrates a fire support mission equipment package (MEP) onto an Operation Desert Storm (ODS) variant chassis. Production of the M7 variant ended in FY01. The A3 BFIST takes advantage of Bradley A3 technology and capability advancements to imbed much of the fire support MEP; what is not imbedded is added as an engineering change proposal (ECP) to the chassis. A3 BFIST procurement begins in FY02 for a quantity to support the 4th Infantry Division. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY03 procures 25 BFIST vehicles, which provides synchronization of combined arms operations. The current fire support vehicle, M981, was unable to maintain the operational tempo of Bradley/Abrams equipped maneuver forces during Operation Desert Storm (ODS).

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)			Weapon System Type:			Date: February 2002			
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					6166				498	6	83	2109	25	85
2. M7 Mission Equipment Package (MEP)					2034	29	71							
3. Pre-Mod Depot Maintenance					9760	29	337							
SUBTOTAL					17960				498			2109		
Non Recurring Production														
4. Engineering Production					2163				2238					
5. Engineering Government					2943				460			1273		
6. Program Management Administration					335				410			401		
7. Reimbursable Matrix Support					757							492		
8. Fielding					6176				2253			547		
9. Test & Evaluation					550				879			2144		
10. Support Equipment					722									
SUBTOTAL					13646				6240			4857		
Total					31606				6738			6966		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2002	UDLP, York PA	SS/FFP	USATACOM, Warren, MI	Apr-02	Apr-04	6	83			
FY 2003	UDLP, York PA	SS/FFP	USATACOM, Warren, MI	Apr-03	Jul-04	25	85			
2. M7 Mission Equipment Package (MEP)										
FY 2001	SEI, Sanford FL	SS/FFP	USATACOM, Warren, MI	Jan-01	Oct-01	29	71			

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2002

COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00													Fiscal Year 01												L A T E R
							Calendar Year 00												Calendar Year 01													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	A	A	U	U	A	S	
1. Vehicle Upgrade																																
	1	FY 00 (M7)	A	55	0	55																										
	1	FY 02 (A3)	A	6	0	6																										
	1	FY 03 (A3)	A	25	0	25																										
Total				86		86																										

M F R	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	UDLP, York PA	1.00	2.00	4.00	0	1	INITIAL	0	3	17	20	
							REORDER	0	2	14	16	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 02 / 03 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)												Date: February 2002											
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					LATE 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	JUN	JUL	AUG
1. Vehicle Upgrade																														
	1	FY 00 (M7)	A	55	2	53	3	5	5	4	4	5	5	5	5	5	5	2												
	1	FY 02 (A3)	A	6	0	6							A																	
	1	FY 03 (A3)	A	25	0	25														A										
Total				86	2	84	3	5	5	4	4	5	5	5	5	5	5	2												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																						
1	UDLP, York PA	1.00	2.00	4.00	0	1	INITIAL	0	3	17	20																			
							REORDER	0	2	14	16																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

FY 04 / 05 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)					Date: February 2002																						
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												L A T E R			
							Calendar Year																											
							Calendar Year 04												Calendar Year 05															
1. Vehicle Upgrade																																		
	1	FY 00 (M7)	A	55	55	0																												
	1	FY 02 (A3)	A	6	0	6								2	2	2																		
	1	FY 03 (A3)	A	25	0	25										2	2	2	2	2	2	2	2	2	2	2	2	2	2	3				
Total														2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3		
				86	55	31																												
MFR	PRODUCTION RATES				REACHED D+	MFR Number	ADMINLEAD TIME			MFR	TOTAL	REMARKS																						
NAME/LOCATION	MIN.	1-8-5	MAX.	Prior 1 Oct			After 1 Oct	After 1 Oct	After 1 Oct																									
1 UDLP, York PA	1.00	2.00	4.00	0	1	INITIAL	0	3	17	20																								
						REORDER	0	2	14	16																								
						INITIAL																												
						REORDER																												
						INITIAL																												
						REORDER																												
						INITIAL																												
						REORDER																												

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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

P-1 Item Nomenclature
MOD OF IN-SVC EQUIP, FIST VEHICLE (GZ2320)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 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						0.7	0.7	0.7				2.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						0.7	0.7	0.7				2.1
Initial Spares												
Total Proc Cost						0.7	0.7	0.7				2.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The BFIST Mod-In-Service line provides funding for life cycle software support to include evolutionary hardware changes for the BFIST program. These hardware changes include those due to the replacement of the LCU due to obsolescence. The system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY03 procures hardware changes as well as logistic changes to support the new digital communications platform and accommodates the integration of the Versatile Computer Unit (VCU) onto the BFIST. The Mod-In-Service line provides program flexibility to incorporate minor hardware and software changes to the BFIST without changing production quantities. A change in the digital communications systems from the LCU to the VCU is anticipated in FY02.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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												
Gross Cost	856.2	73.9	30.2	64.3	54.3	35.0	30.7	57.8	48.2	46.8	122.8	1420.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	856.2	73.9	30.2	64.3	54.3	35.0	30.7	57.8	48.2	46.8	122.8	1420.1
Initial Spares												
Total Proc Cost	856.2	73.9	30.2	64.3	54.3	35.0	30.7	57.8	48.2	46.8	122.8	1420.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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 four Engineer Change Proposals (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:

FY03 procures A2 ODS Applique and High Priority Improvement modifications. These modifications will continue to meet requirements identified to correct deficiencies in Operation Desert Storm, and to improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and mobility will occur if these modifications are delayed or reduced.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2002

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	169.2	8.5	7.6	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	10.6	5.5	2.3	0.0	0.0	0.0	0.0	47.5
Battlefield Combat Identification System											
01-98-05-4546	Oper. Capability	1.9	3.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	9.1
Armor tiles											
1-84-05-4038	Oper. Capability	112.8	20.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0	149.9
BFVS High Priority Improvements											
1-98-05-4550	Oper. Capability	0.0	15.2	15.8	29.5	28.3	57.8	48.2	46.8	122.8	364.4
Prior Year Closed Mods											
0-00-00-0000		664.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	664.0
Totals		960.3	64.4	54.3	35.0	30.6	57.8	48.2	46.8	122.8	1420.2

INDIVIDUAL MODIFICATION

Date: February 2002

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			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Inputs								58	33	33	33	34	49	48	48	48				
Outputs								58	33	33	33	34	49	48	48	48				

	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																					384
Outputs																					384

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	FY 2005 Mar 05							
Delivery Date:	FY 2002 Mar 03	FY 2003 Mar 04	FY 2004 Mar 05								

INDIVIDUAL MODIFICATION

Date: February 2002

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	12.5	147	6.5	58	2.3											384	21.3	
ODS Installation B-kits	68	1.7	121	3.2	89	3.1	49	1.7											327	9.7	
ODS Installation Kits	46	5.6																	46	5.6	
ODS IOT&E Log. Spt.		0.6																		0.6	
ODS Engineering Spt.		2.6		0.3																2.9	
Test Spt.		0.2																		0.2	
EBC Retrofit Kits	53	1.7																	53	1.7	
ODS Eng. Vehicle Engineering				0.7																0.7	
ODS Eng. Vehicle Kits			58	0.0	129	0.1					58	0.0							245	0.1	
--																					
--																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits																					
FY 2001 -- Kits					58	0.9	121	1.4											179	2.3	
FY 2002 Equip -- Kits							12	0.1	135	1.6									147	1.7	
FY 2003 Equip -- Kits									58	0.7									58	0.7	
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	58	0.9	133	1.5	193	2.3		0.0		0.0		0.0		0.0	384	4.7	
Total Procurement Cost		12.4		16.7		10.6		5.5		2.3		0.0		0.0		0.0		0.0		47.5	

INDIVIDUAL MODIFICATION

Date: February 2002

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					
	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																						0

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: February 2002

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	66	15.5													470	126.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders		0.6																		0.6
Data																				
Training Equipment																				
Support Equipment																				
Other		19.9		1.1		1.5														22.5
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		20.1		17.0		0.0		0.0		0.0		0.0		0.0		0.0		149.9

INDIVIDUAL MODIFICATION

Date: February 2002

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

MODELS OF SYSTEM AFFECTED: M2A3/M3A3

DESCRIPTION/JUSTIFICATION:

The Bradley Fighting Vehicle Systems are expected to remain in service until at least 2025. These vehicles represent the primary mechanized infantry force for some time into the foreseeable future. In order to remain viable and retain a strategic hedge against ever-improving threat forces, a series of operational block modifications are being planned for incorporation on these systems. The production implementation of these improvements will be incorporated on the A3 production line, but vehicles built prior the upgrades will require modification. These improvements include the Enhanced Turret Processor Unit (TPUII), M3 Squad Ledged Display (SLD), Driver Heat Insulation, Improved Driver's Viewer stowage, 12x boresight stowage, Common Inertial Navigation Unit (INU) mounting provisions, Missile Interface Module (MIM) Card, ECM improvements, Hull Processor Unit (HPU II) and Common INU.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- TPU2 Spec Available Jan 01
- TPU2 Contract Award Apr 01
- Block 1 Spec Available May 02
- Block 1 Contract Award Sep 02
- Block 2 Spec Available Nov 04
- Block 2 Contract Award Apr 04
- Block 3 Spec Available Nov 05
- Block 3 Contract Award Apr 05

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								31	31	32	32	17	18	18	18	32	32	33	33	43
Outputs								31	31	32	32	17	18	18	18	32	32	33	33	43

	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	43	44	44	115	115	115	115	17	17	17	16	16	16	16	16	23	240	1355
Outputs	43	44	44	115	115	115	115	17	17	17	16	16	16	16	16	23	240	1355

METHOD OF IMPLEMENTATION: contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 15 Months
 Contract Dates: FY 2002 Sep 02 FY 2003 Apr 03 FY 2004 Apr 04
 Delivery Date: FY 2002 Dec 03 FY 2003 Jul 04 FY 2004 Jul 05

INDIVIDUAL MODIFICATION

Date: February 2002

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	15.2															126	15.2	
Block 1 Mods					71	15.8	130	29.5	114	26.4									315	71.7	
Block 2 Mods									60	1.9	397	12.8							457	14.7	
Block 3 Mods											63	45.0	67	48.2	64	46.8	263	122.8	457	262.8	
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		15.2		15.8		29.5		28.3		57.8		48.2		46.8		122.8		364.4	

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	1381.7	11.2	68.9	8.0	5.3	17.4	28.9	10.3	3.1	9.4		1544.3
Less PY Adv Proc	16.3											16.3
Plus CY Adv Proc	16.3											16.3
Net Proc (P-1)	1381.7	11.2	68.9	8.0	5.3	17.4	28.9	10.3	3.1	9.4		1544.3
Initial Spares	9.4											9.4
Total Proc Cost	1391.1	11.2	68.9	8.0	5.3	17.4	28.9	10.3	3.1	9.4		1553.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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/Israeli Joint Development Agreement has expired effective with the Paladin Milestone III, Full Scale Production Decision.

Justification:

FY03 funding provides for the following Howitzer Improvement Program system improvements necessary for the vehicle to operate and interface with other systems on the battlefield: Vehicular Intercom System (VIS) Communication Degradation; Modular Artillery Charge System (MACS) Storage and Handling; Battery Guard System; Paladin Digital Fire Control System (PDFCS); Advanced Computer Unit (ACU).

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2002

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	1458.4	8.0	5.3	17.4	28.9	10.3	3.2	9.4	0.0	1540.9
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
Totals		1461.8	8.0	5.3	17.4	28.9	10.3	3.2	9.4	0.0	1544.3

INDIVIDUAL MODIFICATION

Date: February 2002

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. In October 2001, FY00 funding was received for an additional 18 vehicles from proceeds of an FMS sale of M109A2 Howitzers. FY02-FY07 funding is for system improvements necessary for the vehicle to operate and interface with other systems on the battlefield.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The M109A6 was approved for entry into full scale development in November 1984. At that time, DA decided to modify M109A2/A3 Howitzers to a HIP configuration. It was decided to merge the Howitzer Extended Life Program (HELP) in the HIP where kits from both programs would be applied to the M109A2/A3 Howitzer. The improved 155MM Self-Propelled Howitzer was approved for Type-Classification Low Rate Production (TC-LRP) and designated the M109A6 Howitzer following a Milestone III - A ASARC on 7 February 1990. In March 1993, a Milestone III Pre-ASARC review was chaired by the Assistant Secretary of the Army for Research, Development and Acquisition, and the M109A6 Paladin was approved for Type Classification - Standard and full rate production and deployment. This Milestone III is documented in Acquisition Decision Memorandum dated 9 April 1993. The Paladin production program completed deliveries of the multiyear contract ahead of schedule. Deliveries from the FY00 contract will be completed 2nd Qtr FY02. Deliveries from the FY02 contract are scheduled to be completed 4th Qtr FY03.

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						18												
Outputs	950				3	4					4	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																		975
Outputs																		975

METHOD OF IMPLEMENTATION:	Production	ADMINISTRATIVE LEADTIME:				3 Months	PRODUCTION LEADTIME:				17 Months
Contract Dates:	FY 2002	Jan 2002	FY 2003				FY 2004				
Delivery Date:	FY 2002	Jun 2003	FY 2003				FY 2004				

INDIVIDUAL MODIFICATION

Date: February 2002

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	975																			975	
Equipment		810.2		5.4																	815.6
Equipment, Nonrecurring		245.6																			245.6
Engineering Change Orders		116.6																			116.6
Matrix Personnel Support		101.5						0.5	0.5		0.5		0.2		0.2					103.4	
Data/Other		18.9																			18.9
Training Equipment		14.1																			14.1
Vehicular Intercom System		11.3																			11.3
Project Mgmt Admin		25.2		0.6		1.5		1.5	1.5		1.5		0.5		0.5					32.8	
Fielding		32.5		1.9																	34.4
System Improvements				0.1		3.8		15.4	26.9		8.3		2.5		8.7					65.7	
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	975	82.5																		975	82.5
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	975	82.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		975	82.5
Total Procurement Cost		1458.4		8.0		5.3		17.4		28.9		10.3		3.2		9.4		0.0			1540.9

INDIVIDUAL MODIFICATION

Date: February 2002

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																		950
Outputs																		950

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: February 2002

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																			950	
Hardware		2.0																			2.0
Testing		0.2																			0.2
--																					
--																					
--																					
--																					
--																					
--																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	950	1.2																		950	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		0.0	950 1.2
Total Procurement Cost		3.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	3.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	9.2	2.9	11.2	3.3	1.0			129.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.0	3.1	0.2	0.0	9.2	2.9	11.2	3.3	1.0			129.0
Initial Spares												
Total Proc Cost	98.0	3.1	0.2	0.0	9.2	2.9	11.2	3.3	1.0			129.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

FY03 provides funding for the procurement of the Field Artillery Ammunition Support Vehicle (FAASV) Materiel Change and FAASV Halon Replacement modifications(M992A2 Conversion).

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

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2002

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	9.2	2.1	3.9	0.6	0.9	0.0	0.0	114.9
FAASV Halon Replacement											
1-94-05-4477	Unclassified	3.1	0.0	0.0	0.8	7.3	2.7	0.0	0.0	0.0	13.9
Totals		101.3	0.0	9.2	2.9	11.2	3.3	0.9	0.0	0.0	128.8

INDIVIDUAL MODIFICATION

Date: February 2002

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-FY07 funding is for system improvements necessary for the vehicle to operate and interface with other systems on the battlefield and supports the FAASV Recapitalization Program approved by Vice Chief of Staff Army in Sept 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

Pr Yr	FY 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																		789
Outputs																		789

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: February 2002

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																		789	
Installation Kits		43.6		0.0																43.6
Engineering Change Orders		9.3																		9.3
Project Management Admin		3.1				0.5		0.5		0.5		0.5		0.2						5.3
Testing		0.3																		0.3
Fielding Support		6.2																		6.2
Depot Maint Pre Modification		0.8																		0.8
System Improvements:		9.4				8.7		1.6		3.4		0.1		0.7						23.9
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	789	25.5																	789	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	789	25.5
Total Procurement Cost		98.2		0.0		9.2		2.1		3.9		0.6		0.9		0.0		0.0		114.9

INDIVIDUAL MODIFICATION

Date: February 2002

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																		927
Outputs																		927

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: February 2002

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																		927	
Installation Kits A		1.0																		1.0
Engineering Support		0.2																		0.2
Test		0.5					0.8		2.8		2.7									6.8
Installation Kits B									3.5											3.5
--																				
--																				
--																				
--																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	927	1.4																	927	1.4
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits									1.0											1.0
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		1.0		0.0		0.0		0.0		0.0	927	2.4
Total Procurement Cost		3.1		0.0		0.0		0.8		7.3		2.7		0.0		0.0		0.0		13.9

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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		29	20	16	11	11				189
Gross Cost	207.0	53.6		76.5	57.7	50.3	44.5	48.4	10.7			548.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	207.0	53.6		76.5	57.7	50.3	44.5	48.4	10.7			548.7
Initial Spares	3.5				2.8	2.1	3.0					11.5
Total Proc Cost	210.6	53.6		76.5	60.5	52.4	47.4	48.4	10.7			560.2
Flyaway U/C												
Wpn Sys Proc U/C		3.3		2.6	2.9	3.1	4.0	4.4				

Description:

The M88A2 (HERCULES - Heavy Equipment Recovery Combat Utility Lift and Evacuation System) 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:

The FY03-05 funding will be used to produce 38 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. 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 tank models including the 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 Army intends to use the FY06 program funding to bring the HERCULES program to an orderly close-out which will include; production and delivery of vehicles to bring the total quantity to 189, complete fieldings to selected FORSCOM and TRADOC units, complete essential configuration change enhancements, and bring the HERCULES program to conclusion.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)			Weapon System Type:			Date: February 2002		
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				49514	29	1708	36579	20	1829	31629	16	1977
Vehicle Manufacturing - GFE					2303			2132			1738		
Contractor Engineering					8125			6850			5149		
Engineering Change Orders					1485			1332			1140		
Project Management - Core					1304			1914			1951		
Project Management - OGA					1128			1262			1287		
Transportation					49			157			115		
Fielding					4783			2475			2780		
Testing (non-Track and Cleat)					251								
Depot Maintenance - Premodification					2102			1924			1568		
Fleet Cut -in/Retrofit for Modifications					1500								
Track and Cleat Engineering & Testing					3560			3033			2901		
Data					357			52			53		
Initial Spares								2830			2133		
Total					76461			60540			52444		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	29	1708	YES		OCT 00
FY 2002	UDLP York, PA	SS-FFP	TACOM	MAR 02	AUG 03	20	1829	YES		OCT 01
FY 2003	UDLP York, PA	SS-FFP	TACOM	MAR 03	JUL 04	16	1977	YES		OCT 02
Vehicle Manufacturing - GFE										
FY 2001	VARIOUS	RQN/PC	VARIOUS	VARIOUS	VARIOUS			YES		
FY 2002	VARIOUS	RQN/PC	VARIOUS	VARIOUS	VARIOUS			YES		
FY 2003	VARIOUS	RQN/PC	VARIOUS	VARIOUS	VARIOUS			YES		

REMARKS: 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.

FY03: Production material with greater than 12 month lead time must be awarded in Nov 02 with definitive production contract being awarded in Mar 03.

FY 03 / 04 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)													Date: February 2002										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03													Fiscal Year 04					L A T E R					
							Calendar Year 03													Calendar Year 04										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		APR	MAY	JUN	JUL	AUG
Vehicle Manufacturing - Contractor																														
	1	FY 01	A	29	14	15	1	3	3	3	3	1	1																	
	1	FY 02	A	20	0	20									1	2	2	2	2	2	2	2	2	1						
	1	FY 03	A	16	0	16						A											1	2	2					
	1	FY 04	A	11	0	11													A											
	1	FY 05	A	11	0	11																								
Total				87	14	73	1	3	3	3	3	1	1			1	2	2	2	2	2	2	2	2	33					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																						
1	UDLP, York, PA	2.00	3.00	5.00	0	1	INITIAL	0	5	12	17	No production breaks will occur between FY03 and FY04 due to USMC planned production.																		
							REORDER	0	0	0	0																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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

Date: February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05														Fiscal Year 06					L A T E R					
							Calendar Year 05														Calendar Year 06										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A		M	J	J	A	S
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A		P	A	U	U	U
Vehicle Manufacturing - Contractor																															
	1	FY 01	A	29	29	0																									
	1	FY 02	A	20	20	0																									
	1	FY 03	A	16	5	11	2	2	1	2	2	2																			
	1	FY 04	A	11	0	11						2	2	2	2	2	1														
	1	FY 05	A	11	0	11					A									2	2	2	2	3							
Total				87	54	33	2	2	1	2	2	2	2	2	2	1				2	2	2	2	3							

							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

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	UDLP, York, PA	2.00	3.00	5.00	0	1	INITIAL	0	5	12	17	A production break will occur in FY06(Oct-Mar)due to a FY04 funding shortfall.
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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								46
Gross Cost	106.4	50.0	90.9	76.3	7.5							331.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	106.4	50.0	90.9	76.3	7.5							331.1
Initial Spares	0.9	0.9	1.3									3.1
Total Proc Cost	107.3	50.8	92.2	76.3	7.5							334.2
Flyaway U/C												
Wpn Sys Proc U/C		8.3	6.5	6.4								

Description:

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 situational awareness 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 equipped BCT with similiar mobility, survivability, and supportability as the assault force. 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 588th Engineer Battalion participation in the Force XXI 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: February 2002		
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
Vehicle Manufacturing - Contractor					43000	12	3584						
Vehicle Manufacturing - ANAD					1746	12	146						
Vehicle Manufacturing - GFE					7418	12	619						
Contract Engineering - HAB Unique					16861			1772					
Contract Engineering - SEP Common					500			100					
Engineering Change Orders					1100			200					
Project Mgmt Admin - Core					1070			1223					
Project Mgmt Admin - OGA					1700			1419					
New Equipment Training					100			311					
Total Package Fielding					1800			1495					
Transportation					400			500					
Modifications					400								
Obsolescence					200			519					
Total					76295			7539					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	General Dynamics Land Sys Sterling Heights, MI	SS-FFP	TACOM	Jun 01	Jan 03	12	3584	YES		Mar 01
Vehicle Manufacturing - ANAD FY 2001	Anniston Army Depot Anniston, Alabama					12	146			
Vehicle Manufacturing - GFE FY 2001	Govt Furnished Equipment Various					12	619			

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												LATE R
							Calendar Year 04												Calendar Year 05												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Vehicle Manufacturing - Contractor	1	FY 01	A	12	9	3	1	1	1																				0		
Total				12	9	3	1	1	1																						

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	General Dynamics Land Sys, Sterling Heights, MI	1.00	10.00	25.00	0		INITIAL	0	9	20	29	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	10.0	8.3	8.5	8.8	11.1		199.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	146.2	1.0	1.4		4.0	10.0	8.3	8.5	8.8	11.1		199.3
Initial Spares												
Total Proc Cost	146.2	1.0	1.4		4.0	10.0	8.3	8.5	8.8	11.1		199.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

COMMON CHASSIS MODIFICATIONS: Completes M60 mods required but not applied to the AVLB fleet.

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:

FY03 funding provides for the continuation of the AVLB Common Chassis and Hydraulic/Electrical Modification programs. Supporting the AVLB fleet, in Active Component and high priority War Reserve assets initially.

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2002

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	8.5	7.6	8.5	8.8	11.1	0.0	47.3
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	1.5	0.6	0.0	0.0	0.0	0.0	5.5
Totals		148.6	0.0	4.0	10.0	8.2	8.5	8.8	11.1	0.0	199.2

INDIVIDUAL MODIFICATION

Date: February 2002

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:

Mar 02, 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										2							16			
Outputs											2							16	16	19
	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	20	21	22	22	16	16	17	17	21	21	21	21								323
Outputs	19	20	21	22	22	16	16	17	17	21	21	21	21							323

METHOD OF IMPLEMENTATION: CONTRACTOR TEAMS ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 Mar 02 FY 2003 Jun 03 FY 2004 Dec 03
 Delivery Date: FY 2002 Mar 03 FY 2003 Jun 04 FY 2004 Dec 04

INDIVIDUAL MODIFICATION

Date: February 2002

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		48		58		65		66		84				323	
Installation Kits						0.2	4.2		5.2		5.9		6.1		7.9					29.5
Installation Kits, Nonrecurring																				
Equipment																				
Tooling						0.1														0.1
Engineering Change Orders						0.2	0.5													0.7
TM Updates						1.5	1.0													2.5
Govt Support						0.5	0.5		0.6		0.6		0.6		0.6					3.4
STS						0.2	0.2		0.2		0.2		0.2		0.2					1.2
Testing							0.8													0.8
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					2	0.1													2	0.1
FY 2003 Equip -- Kits							48	1.3											48	1.3
FY 2004 Equip -- Kits									58	1.6									58	1.6
FY 2005 Equip -- Kits											65	1.8							65	1.8
FY 2006 Equip -- Kits													66	1.9					66	1.9
FY 2007 Equip -- Kits															84	2.4			84	2.4
TC Equip- Kits																				
Total Installment		0.0		0.0	2	0.1	48	1.3	58	1.6	65	1.8	66	1.9	84	2.4		0.0	323	9.1
Total Procurement Cost		0.0		0.0		2.8		8.5		7.6		8.5		8.8		11.1		0.0		47.3

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Prior Completed Mods [MOD 2] 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																						0

METHOD OF IMPLEMENTATION: 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: February 2002

MODIFICATION TITLE (Cont): Prior Completed Mods [MOD2] 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		146.2																		146.2
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		146.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		146.2

INDIVIDUAL MODIFICATION

Date: February 2002

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					
	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																						0

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: February 2002

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
Total Procurement Cost		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.2

INDIVIDUAL MODIFICATION

Date: February 2002

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 01, 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						13	13	13	12	12	13	13	16	16	16	17	13	12	13	
Outputs							13	13	13	12	12	13	13	16	16	16	17	13	12	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																					192
Outputs																					192

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

INDIVIDUAL MODIFICATION

Date: February 2002

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				50		65		25										192	
Installation Kits		0.9				0.6		0.8		0.2										2.5
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders:																				
Govt Support		0.8				0.2		0.2		0.2										1.4
Contract Engineering		0.4																		0.4
Pre-Conversion Contractor																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	52	0.1																	52	0.1
FY 2001 -- Kits																				
FY 2002 Equip -- Kits					50	0.4													50	0.4
FY 2003 Equip -- Kits							65	0.5											65	0.5
FY 2004 Equip -- Kits									25	0.2									25	0.2
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	52	0.1		0.0	50	0.4	65	0.5	25	0.2		0.0		0.0		0.0		0.0	192	1.2
Total Procurement Cost		2.2		0.0		1.2		1.5		0.6		0.0		0.0		0.0		0.0		5.5

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	29.4	55.5	81.2	191.4	531.1	575.2	550.7	479.0	1993.9	5123.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	610.2	26.0	29.4	55.5	81.2	191.4	531.1	575.2	550.7	479.0	1993.9	5123.7
Initial Spares												
Total Proc Cost	610.2	26.0	29.4	55.5	81.2	191.4	531.1	575.2	550.7	479.0	1993.9	5123.7
Flyaway U/C												
Wpn Sys Proc U/C												

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 (UAAPU). 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 Eyesafe LASER Range Finder (ELRF). 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 (TCP).

Justification:

FY03 funding procures numerous components and required safety modifications in support of the M1A1 AIM, M1A2 SEP Upgrade, and M1A2 SEP Retrofit production lines. 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:

February 2002

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	1.0	1.1	1.2	1.3	1.4	37.3	54.8
Driver's Hatch Interlock (DHI)											
1-97-05-4520	Safety	24.8	1.4	2.4	2.0	4.2	5.3	5.4	5.5	3.3	54.3
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	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
Precision Lightweight GPS Receiver (PLGR)											
1-92-05-4417	Manprint	1.4	0.9	0.9	0.9	0.9	1.0	1.0	1.0	29.7	37.7
Block G Mods											
1-99-05-4554	Deficiency Correct	54.8	1.5	1.8	1.8	1.6	1.5	1.5	1.4	3.7	69.6
Pulse - Jet System (PJS)											
1-92-05-4475	Operational	39.4	5.5	5.9	3.9	6.1	6.4	6.5	5.7	162.0	241.4
FBCB2 Upgrade											
1-96-05-4516	Operational	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	4.5	7.5
External Auxiliary Power Unit (EAPU)											
1-85-05-4057	Operational	60.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.5
NBC Fire Warning (NBCFW)											
1-97-05-4524	Safety	0.2	0.0	0.6	0.8	0.8	0.8	0.8	0.8	2.6	7.4

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2002

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	8.3	3.4	1.1	1.1	1.4	1.2	1.2	1.3	10.9	29.9
Frontal Armor Upgrade											
1-98-05-4545	Operational	0.0	0.0	9.1	19.8	89.3	77.6	84.2	85.7	505.2	870.9
Improved Turret Side Armor											
1-99-05-4555	Operational	0.0	0.5	1.7	2.3	7.6	8.0	8.3	9.0	0.0	37.4
Eyesafe Laser Rangefinder (ESLRF)											
1-99-05-4563	Safety	0.0	6.3	6.6	8.3	7.3	7.5	5.1	3.8	29.1	74.0
Abrams Crusader Common Engine (ACCE)											
1-00-05-0014	Operational	0.0	0.0	0.0	98.0	265.5	248.0	245.8	244.1	0.0	1101.4
Electronics Obsolescence											
1-00-05-0015	Operational	0.0	8.9	22.1	23.2	30.4	34.9	40.7	41.2	1019.1	1220.5
Under Armor Auxiliary Power Unit (UAAPU)											
1-98-05-4545	Operational	0.0	5.3	0.0	6.8	65.1	78.2	79.8	44.5	42.0	321.7
Support											
0-00-00-0000	Operational	2.3	17.1	25.5	9.4	35.4	34.2	20.4	20.8	103.5	268.6
M1A1D Retrofit											
1-98-05-4542	Operational	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2002

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
M829E3 Ballistic Solution											
1-01-05-0011	Operational	0.0	0.0	0.0	2.1	2.8	3.5	1.8	0.3	0.5	11.0
Contingency Armor											
2-01-05-0001	Operational	0.0	0.0	0.0	0.0	1.0	55.1	35.9	2.8	23.8	118.6
Far Target Locator											
0-00-00-0000	Operational	0.0	0.0	0.0	9.5	10.1	10.3	10.5	9.2	0.5	50.1
Prior Year Closed Modifications											
0-00-00-0000		385.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	385.9
Totals		665.7	55.5	81.2	191.4	531.1	575.2	550.7	479.0	1977.7	5107.5

INDIVIDUAL MODIFICATION

Date: February 2002

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

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

DESCRIPTION/JUSTIFICATION:

PJS improves the engine air filtration system used on the Abrams tanks by using air pressure to remove dust from air filters. This reduces operating costs by reducing the need for scheduled maintenance. The procurement quantities shown include 180 PJS kits procured with FY97 OMA funds.

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			
		Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Inputs	694	33	33	34	35	33	33	34	35	20	20	20	20	33	33	34	35	33	33	34	35
Outputs	684	33	33	34	35	33	33	34	35	33	33	34	35	33	33	34	35	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	33	33	34	35	28	29	29	29										2811	4375
Outputs	33	33	34	35	33	33	34	35										2926	4555

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 24 Months PRODUCTION LEADTIME: 24 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: February 2002

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		80		135		135		135		115		2811		4375		
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment		35.3		4.8		5.2		3.2		5.4		5.6		5.7		4.9		141.5		211.6	
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																	684	4.1	
FY 2001 -- Kits			135	0.7															135	0.7	
FY 2002 Equip -- Kits					135	0.7													135	0.7	
FY 2003 Equip -- Kits							135	0.7											135	0.7	
FY 2004 Equip -- Kits									135	0.7									135	0.7	
FY 2005 Equip -- Kits											135	0.8							135	0.8	
FY 2006 Equip -- Kits													135	0.8					135	0.8	
FY 2007 Equip -- Kits															135	0.8			135	0.8	
TC Equip- Kits																	2926	20.5	2926	20.5	
Total Installment	684	4.1	135	0.7	135	0.7	135	0.7	135	0.7	135	0.8	135	0.8	135	0.8	2926	20.5	4555	29.8	
Total Procurement Cost		39.4		5.5		5.9		3.9		6.1		6.4		6.5		5.7		162.0		241.4	

INDIVIDUAL MODIFICATION

Date: February 2002

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

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 790 M1A2 = 0 TOTAL: = 790

DESCRIPTION/JUSTIFICATION:

This modification is for replacing existing tank frontal armor with improved armor.

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												5	11	11	11	12	33	34	34	34
Outputs																5	11	11	11	12

	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	33	34	34	34	33	34	34	34	33	34	34	34	33	34	34	34	65	790
Outputs	33	34	34	34	33	34	34	34	33	34	34	34	33	34	34	34	200	790

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: February 2002

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							5		45		135		135		135		335		790	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							19.8		89.3		77.6		84.2		85.7		505.2		861.8	
Equipment, Nonrecurring					9.1														9.1	
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									5										5	
FY 2005 Equip -- Kits											45								45	
FY 2006 Equip -- Kits													135						135	
FY 2007 Equip -- Kits															135				135	
TC Equip- Kits																	470		470	
Total Installment		0.0		0.0		0.0		0.0	5	0.0	45	0.0	135	0.0	135	0.0	470	0.0	790	0.0
Total Procurement Cost		0.0		0.0		9.1		19.8		89.3		77.6		84.2		85.7		505.2		870.9

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Eyesafe Laser Rangefinder (ESLRF) [MOD 15] 1-99-05-4563

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

	Pr Yr	FY 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		73	73	73	73	65	66	66	66	120	120	120	120	120	120	120	120	120	120	120	120	120
Outputs		39	39	39	40	33	33	34	35	155	155	156	157	120	120	120	120	120	120	120	120	120
		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		60	60	60	60	30	30	30	30									847		3202		
Outputs		60	60	60	60	30	30	30	30									967		3202		

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: February 2002

MODIFICATION TITLE (Cont): Eyesafe Laser Rangefinder (ESLRF) [MOD 15] 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			292		263		480		480		480		240		120		847		3202	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment				6.1		5.6		5.9		6.0		6.2		4.0		2.8		20.7		57.3
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits			157	0.2															157	0.2
FY 2001 -- Kits					135	1.0													135	1.0
FY 2002 Equip -- Kits							623	2.4											623	2.4
FY 2003 Equip -- Kits									480	1.3									480	1.3
FY 2004 Equip -- Kits											480	1.3							480	1.3
FY 2005 Equip -- Kits													240	1.1					240	1.1
FY 2006 Equip -- Kits															120	1.0			120	1.0
FY 2007 Equip -- Kits																	967	8.4	967	8.4
TC Equip- Kits																				
Total Installment		0.0	157	0.2	135	1.0	623	2.4	480	1.3	480	1.3	240	1.1	120	1.0	967	8.4	3202	16.7
Total Procurement Cost		0.0		6.3		6.6		8.3		7.3		7.5		5.1		3.8		29.1		74.0

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Abrams Crusader Common Engine (ACCE) [MOD 16] 1-00-05-0014

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 0, M1A2 = 1015, TOTAL = 1015

DESCRIPTION/JUSTIFICATION:

This modification is intended to reduce the Operating and Support (O&S) cost of the Abrams Tank engine. It will equip the active component Abrams fleet with a 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			
	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																		0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 24 Months PRODUCTION LEADTIME: 24 Months
 Contract Dates: FY 2002 FY 2003 FY 2004
 Delivery Date: FY 2002 FY 2003 FY 2004

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): Abrams Crusader Common Engine (ACCE) [MOD 16] 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							60		238		239		239		239				1015	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							98.0		265.5		248.0		245.8		244.1				1101.4	
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		98.0		265.5		248.0		245.8		244.1		0.0		1101.4

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Electronics Obsolescence [MOD 17] 1-00-05-0015

MODELS OF SYSTEM AFFECTED: M1A1 and M1A2

DESCRIPTION/JUSTIFICATION:

The M1A1 electronics uses 1980s or earlier technology. The turret network box (TNB) and the hull network box (HNB) are key electrical system components. Both have numerous obsolete parts that may be replaced only through cannibalization of discarded components. Cannibalization is not a viable means to sustain the Abrams tanks until 2030. Replacing the analog TNBs and HNBs with new digital units eliminates the associated obsolescence and makes it easy to add a built-in-test capability to support the Force XXI maintenance structure.

The Abrams M1A2 Continuous Electronics Enhancement Program (CEEP) is intended to upgrade the M1A2 electronic system components following a five-year cycle.

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			
	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		
Totals																		0
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

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

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): Electronics Obsolescence [MOD 17] 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						22.1		23.2		30.4		34.9		40.7		41.2		1019.1		1211.6
Installation Kits, Nonrecurring				8.9																8.9
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Contractor Support																				
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		8.9		22.1		23.2		30.4		34.9		40.7		41.2		1019.1		1220.5

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Under Armor Auxiliary Power Unit (UAAPU) [MOD 18] 1-98-05-4545

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 0, M1A2 = 966 TOTAL = 966

DESCRIPTION/JUSTIFICATION:

The UAAPU is a small auxiliary engine that is built-in to the M1A2 SEP tank. It may be used to power the tank electrical and hydraulic systems without operating the main engine. This is particularly useful when the tank is in "silent watch" mode since it is more difficult for the enemy to detect the tank's audible and heat signals. Operating and Support (O&S) cost savings naturally accrue from the reduced main engine operating hours.

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
 Limited Production Award.....PLANNED: 3Q02.....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																						0
Outputs																						0

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: February 2002

MODIFICATION TITLE (Cont): Under Armor Auxiliary Power Unit (UAAPU) [MOD 18] 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							22		206		242		242		132		122		966	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							6.8		65.1		78.2		79.8		44.5		42.0		316.4	
Equipment, Nonrecurring			5.3																5.3	
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		5.3		0.0		6.8		65.1		78.2		79.8		44.5		42.0		321.7

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Support [MOD 19] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Whole Fleet

DESCRIPTION/JUSTIFICATION:

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

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 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																						0

METHOD OF IMPLEMENTATION:

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

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): Support [MOD 19] 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		17.1		25.5		9.4		35.4		34.2		20.4		20.8		103.5		268.6
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		17.1		25.5		9.4		35.4		34.2		20.4		20.8		103.5		268.6

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Far Target Locator [MOD 23] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: IPM1 = 0, M1A1 = 655, M1A2 = 0 TOTAL = 655

DESCRIPTION/JUSTIFICATION:

This is a system that automatically reports the geographical coordinates of a target detected by the tank's LASER Range Finder. The range information is displayed on the upgraded tank commander's panel (UTCP) that has digital circuits in place of obsolete analog components. The FTL system works independently of the Force XXI Battle Command Brigade and Below (FBCB2) software. However, if the Army decides to convert more M1A1 tanks to the M1A1-D configuration [described in Mod 20], the FTL system will interface with either the Applique Computer or the Common Card designed to run the FBCB2 software.

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
Inputs										33	34	34	34	33	34	34	34	33	34	34	34
Outputs														33	34	34	34	33	34	34	34
		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		33	34	34	34	28	29	29	29										655		
Outputs		33	34	34	34	33	34	34	34	28	29	29	29						655		

METHOD OF IMPLEMENTATION:

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

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE (Cont): Far Target Locator [MOD 23] 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							135		135		135		135		115				655	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							9.5		9.6		9.8		10.0		8.7					47.6
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																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits									135	0.5									135	0.5
FY 2005 Equip -- Kits											135	0.5							135	0.5
FY 2006 Equip -- Kits													135	0.5					135	0.5
FY 2007 Equip -- Kits															135	0.5			135	0.5
TC Equip- Kits																	115	0.5	115	0.5
Total Installment		0.0		0.0		0.0		0.0	135	0.5	135	0.5	135	0.5	135	0.5	115	0.5	655	2.5
Total Procurement Cost		0.0		0.0		0.0		9.5		10.1		10.3		10.5		9.2		0.5		50.1

INDIVIDUAL MODIFICATION

Date: February 2002

MODIFICATION TITLE: Prior Year Closed Modifications [MOD 24] 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																						0

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: February 2002

MODIFICATION TITLE (Cont): Prior Year Closed Modifications [MOD 24] 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		385.9																		385.9
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		385.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		385.9
Total Procurement Cost		385.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		385.9

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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												
Gross Cost				1.9	11.6							13.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				1.9	11.6							13.4
Initial Spares												
Total Proc Cost				1.9	11.6							13.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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. Selected tanks slated for this improvement will be modified to accept the Enhanced Position Locating and Reporting System, commonly referred to as the EPLRS radio. IAW the 17 August 2001 VCSA approved Abrams Recapitalization Program and MFR, Subject: Recapitalization Decision Briefings to VCSA and AAE Results, dated 10 December 2001, in FY03 the Army will consider an Abrams Recap growth path budget decision to Ground Recap Option 4a Revised which supports digitization of the Abrams M1A1 tanks for the remaining Active Component; Contingency Force (2ID, 1ID, 1AD). This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY03 procures the digitization modification to 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: February 2002		
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								4630		34.296			
2. Applique Computer (B-Kit)								1660		30.182			
3. Far Target (C-Kit)								1790		32.545			
4. EPLRS Integration (50% of Tanks)								388		14.370			
5. M1A1D Kit Installation					271			295					
6. Contractor Engineering					1400			624					
7. Government Support (including Test)					212			721					
8. Special Tools & Test Sets								332					
9. Training Device MODs								723					
10. Total Package Fielding								403					
Total					1883			11566					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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

Weapon System Type:

P-1 Line Item Nomenclature:
MIA1D 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 FY 2003	GDLS Sterling Heights, MI GDLS Sterling Heights, MI	CPFF	TACOM, Warren, MI	Dec 01	Oct 02		35			
2. Applique Computer (B-Kit) FY 2002 FY 2003	PM, FBCB2 Ft. Monmouth, NJ PM, FBCB2 Ft. Monmouth, NJ	GFE	Ft. Monmouth, NJ	Dec 01	Oct 02		31			
3. Far Target (C-Kit) FY 2002 FY 2003	GDLS Sterling Heights, MI GDLS Sterling Heights, MI	CPFF	TACOM, Warren, MI	Dec 01	Oct 02		33			
4. EPLRS Integration (50% of Tanks) FY 2002 FY 2003	Various Various Various Various			var var			15			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	31	43	52	74	87	91	419
Gross Cost				58.1	99.4	123.7	163.4	194.2	314.8	366.6	386.5	1706.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				58.1	99.4	123.7	163.4	194.2	314.8	366.6	386.5	1706.7
Initial Spares												
Total Proc Cost				58.1	99.4	123.7	163.4	194.2	314.8	366.6	386.5	1706.7
Flyaway U/C												
Wpn Sys Proc U/C				3.6		4.0	3.8	3.7	4.3	4.2	4.2	

Description:

This program upgrades 419 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:

FY03 funding procures 31 M1A2SEP Retrofits. The SEP Program enhances the combat effectiveness of the Abrams Tank Fleet while maintaining the key elements of the tank industrial base.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)			Weapon System Type:			Date: February 2002		
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				26606	16	1663	38900	25	1556	49280	31	1590
FLIR	A				11024	16	689	17407	25	697	22071	31	712
ESLRF	A				330	16	21	518	25	21	657	31	22
M1A2 Depot-Maintenance Pre-MOD STS, TPF & ST/TS, Gov't Spt					1720	2	860	21506	14	1537	27267	31	880
					18431			21026			24422		
Total					58111			99357			123697		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	QTY	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
					Delivery					
SEP										
FY 2001	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun-01	Dec-02	16	1663	Yes		Sep-00
FY 2002	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun-02	Dec-03	25	1556			
FY 2003	GDLS Sterling Hgts, MI	SS/FFP	TACOM - Warren	Jun-03	Dec-04	31	1590			
FLIR										
FY 2001		SS/FFP	CECOM	Jan-01	Jun-02	16	689	Yes		Sep-00
FY 2002		SS/FFP	CECOM	Nov-01	Jun-03	25	697			
FY 2003		SS/FFP	CECOM	Nov-02	Jun-04	31	712			
ESLRF										
FY 2001	Litton Apopka, FL	SS/FFP	Acala	Dec 00	May 02	16	21	Yes		
FY 2002	TBS	SS/FFP	Acala	Jan 02	Jan 03	25	21			
FY 2003	TBS	C/FFP	Acala	Jan 03	Jan 04	31	22			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	340	120	120	100	104	103						887
Gross Cost	2192.9	688.1	690.9	563.9	648.2	586.9	96.5					5467.5
Less PY Adv Proc	804.3	259.9	260.7	273.8	256.5	210.6						2065.9
Plus CY Adv Proc	1064.2	260.7	373.7	172.8	194.4							2065.9
Net Proc (P-1)	2452.8	689.0	803.9	462.9	586.1	376.3	96.5					5467.5
Initial Spares	39.6	9.7	9.7	14.7	23.4	10.0	11.9	12.1	12.3	12.6	113.9	269.9
Total Proc Cost	2492.4	698.7	813.6	477.6	609.5	386.2	108.5	12.1	12.3	12.6	113.9	5737.4
Flyaway U/C	0.0	0.0	0.0	0.0	0.0	0.0						
Wpn Sys Proc U/C		5.7	5.8	5.6	6.2	5.7						

Description:

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

Justification:

FY03 procures 103 M1A2 SEP Upgrade vehicles. 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: February 2002		
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				261569	100	2616	293271	104	2820	261826	103	2542
2. Armor					58046	120	484	62013	121	513	44221	48	922
3. H/TEU													
4. Engine DECU/PROSE					30100	100	301	35873	104	345	24363	103	237
5. Transmission					24244	100	243	33691	104	324	22160	103	216
6. Final Drive					1431	200	8	1489	208	8	1504	206	8
7. Fire Control					3084	100	31	3179	104	31	3211	103	32
8. Track					4356	15600	1	4483	16224	1	4530	16068	1
9. Roadwheels					1759	3200	1	1816	3328	1	1835	3296	1
10. Gun Mounts					3249	50	65	3379	52	65	3447	51	68
11. Gun					19752	100	198	11698	104	113	22536	103	219
12. Driver's Night Viewer					565	100	6	598	104	6	604	103	6
13. Basic Issue Items					920	100	10	956	104	10	966	103	10
14. MILSTRIPS/RIK					709	100	8	750	104	8	758	103	8
15. VIS					1272	100	13	1310	104	13	1323	103	13
16. Special Tools & Test Sets					8110			12383			12511		
17. System Technical Support (STS)					22075			55165			56084		
18. Government Support					18014			18335			18705		
19. Auxiliary Services					2304			2345			2393		
20. Testing					6260			6371			6500		
21. Transportation (FDT)					409			433			438		
22. Total Package Fielding					7151			7569			7647		
23. II Gen FLIR					74331	100	744	76141	104	733	74143	103	720
24. Pre Mod Depot Maintenance					14170	100	142	14998	104	145	15154	103	148
25. GDLS SEP-S													
26. Program End Liabilities													
27. NonRecur Cost (Pilots, GFE Seed)													
28. Service Life Extension (SLE)													
Gross P-1 End Cost					563880			648246			586859		
Less: Prior Year Adv Proc					273812			256547			210591		
Net P-1 Full Funding Cost					290068			391699			376268		
Plus: P-1 CY Adv Proc					172848			194438					
Initial Spares					14671			23390			9952		
Total					477587			609527			386220		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	QTY	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
					Delivery					
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	2616	Yes		Sep 99
FY 2002	GDLS Sterling Hgts, MI	SS/FFP/M2	TACOM-Warren	Feb 02	Aug 02	104	2820	Yes		Sep 99
FY 2003	GDLS Sterling Hgts, MI	SS/FFP/M3	TACOM-Warren	Feb 03	Aug 03	103	2542	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	484	NA		NA
FY 2002	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 01	Feb 02	121	513	NA		NA
FY 2003	Bechtel BXWT Idaho Falls, ID	SS/CPFF	Department of Energy	Jan 02	Feb 03	48	922	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	Jun 01	Jun 01	100	301	Yes		Sep 97
FY 2002	AlliedSignal Tucson, AZ	SS/FFP	TACOM-Warren	Jun 01	Feb 02	104	345	Yes		Sep 97
FY 2003	AlliedSignal Tucson, AZ	Option	TACOM-Warren	Feb 02	Feb 03	103	237	Yes		Sep 97

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	QTY	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
					Delivery	Each	\$			
5. Transmission										
FY 2000	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Feb 99	Feb 00	120	215	Yes		Dec 96
FY 2001	Allison Transmission Div Indianapolis, IN	FFP/CPFF	TACOM-Warren	Dec 00	Feb 01	100	243	Yes		Jun 99
FY 2002	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Dec 00	Feb 02	104	324	Yes		Jun 99
FY 2003	Allison Transmission Div Indianapolis, IN	Option	TACOM-Warren	Jan 02	Feb 03	103	216	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	8	Yes		May 98
FY 2002	LOC Performance, Inc Plymouth, MI	Option	TACOM-Warren	Feb 01	Feb 02	208	8	Yes		May 98
FY 2003	LOC Performance, Inc Plymouth, MI	Option	TACOM-Warren	Feb 02	Feb 03	206	8	Yes		May 98
7. Fire Control										
FY 2000	Various	Various	TACOM-ACALA	Various	Feb 00	120	23	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
FY 2003	Various	Various	TACOM-ACALA	Various	Feb 03	103	32	Yes		Various

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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
8. Track										
FY 2000	Goodyear Tire & Rubber Akron, OH	SS-FFP	TACOM-Warren	Mar 99	Feb 00	18720	1	Yes		Dec 97
FY 2001	Goodyear Tire & Rubber Akron, OH	Option	TACOM-Warren	Sep 00	Feb 01	15600	1	Yes		Dec 97
FY 2002	Goodyear Tire & Rubber Akron, OH	Option	TACOM-Warren	Mar 01	Feb 02	16224	1	Yes		Dec 97
FY 2003	TBS	C-FFP	TACOM-Warren	Mar 02	Feb 03	16068	1	Yes		
9. Roadwheels										
FY 2000	Red River Army Depot Texarkana, TX	WR		Dec 99	Feb 00	3840	1	Yes		Sep 98
FY 2001	Red River Army Depot Texarkana, TX	WR		Sep 00	Feb 01	3200	1	Yes		Sep 98
FY 2002	Red River Army Depot Texarkana, TX	WR		Mar 01	Feb 02	3328	1	Yes		Sep 98
FY 2003	Red River Army Depot Texarkana, TX	WR		Feb 02	Feb 03	3296	1	Yes		Sep 98
10. Gun Mounts										
FY 2000	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Mar 99	Feb 00	60	43	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
FY 2003	Rock Island Arsenal/GDLS Rock Island, IL	WR	/1	Apr 02	Feb 03	51	68	Yes		NA

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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
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	113	Yes		NA
FY 2003	Watervliet Arsenal Watervliet, NY	WR		Mar 02	Feb 03	103	219	Yes		NA
12. Driver's Night Viewer										
FY 2001	CECOM NICP Fort Monmouth, NJ	REQ		Feb 01	Feb 01	100	6	Yes		NA
FY 2002	CECOM NICP Fort Monmouth, NJ	REQ		Feb 02	Feb 02	104	6	Yes		NA
FY 2003	CECOM NICP Fort Monmouth, NJ	REQ		Feb 03	Feb 03	103	6	Yes		NA
13. Basic Issue Items										
FY 2000	TACOM-ACALA Rock Island, IL	WR		Feb 99	Feb 00	120	9	Yes		NA
FY 2001	TACOM-ACALA Rock Island, IL	WR		Dec 00	Feb 01	100	10	Yes		NA
FY 2002	TACOM-ACALA Rock Island, IL	WR		Feb 01	Feb 02	104	10	Yes		NA
FY 2003	TACOM-ACALA Rock Island, IL	WR		Feb 02	Feb 03	103	10	Yes		NA
14. MILSTRIPS/RIK										

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

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	NA	REQ		Various	Feb 00	120	4	Yes		NA
FY 2001	NA	REQ		Various	Feb 01	100	8	Yes		NA
FY 2002	NA	REQ		Various	Feb 02	104	8	Yes		NA
FY 2003	NA	REQ		Various	Feb 03	103	8	Yes		NA
15. VIS										
FY 2000	Grumman Aerospace Corp Bethpage, NY	Option	CECOM	Aug 99	Feb 00	120	11	Yes		Sep 91
FY 2001	Grumman Aerospace Corp Bethpage, NY	REQ		Oct 00	Feb 01	100	13	Yes		Sep 91
FY 2002	Grumman Aerospace Corp Bethpage, NY	REQ		Oct 00	Feb 02	104	13	Yes		Sep 91
FY 2003	Grumman Aerospace Corp Bethpage, NY	REQ		Apr 02	Feb 03	103	13	Yes		Sep 91
23. II Gen FLIR										
FY 2000	Various	Option	CECOM	Dec 98	Feb 00	120	740	Yes		Sep 96
FY 2001	Various	Option	CECOM	Nov 99	Feb 01	100	744	Yes		Sep 96
FY 2002	Various	Option	CECOM	Nov 00	Feb 02	104	733	Yes		Sep 96
FY 2003	Various	Option	CECOM	Nov 01	Feb 03	103	720	Yes		Sep 96

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

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	373.7	172.8	194.4							2065.9
Net Proc (P-1)	1064.2	260.7	373.7	172.8	194.4							2065.9
Initial Spares												
Total Proc Cost	1064.2	260.7	373.7	172.8	194.4							2065.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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: February 2002
--	--------------------------	-------------------------------	------------------------

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		26.5	18.7	13.5	2.5							61.2
1.1 Termination Liability				73.3	177.5	40.4	67.0							358.1
2. Armor	19	6		10.2	15.5	15.2	3.2							44.1
3. H/TEU	13	6												
4. Engine DECU/PROSE	20	6		14.8	25.7	16.5	16.8							73.8
5. Transmission	19	6		21.1	20.9	15.2	16.3							73.5
6. Final Drives	16	6		1.9	1.5	1.1	1.3							5.8
7. Fire Control	16	6		2.5	3.2	2.5	2.7							10.9
8. Track	19	6		5.3	4.6	3.4	3.9							17.2
9. Roadwheels	16	6			1.8	1.8	1.8							5.4
10. Gun Mounts	16	6		2.5	3.4	2.4	2.9							11.2
11. Gun	16	6		23.9	19.2	8.6	19.2							70.9
12. Driver's Night Viewer	13	6					0.6							0.6
13. Basic Issue Items	16	6		0.0	1.0		1.0							1.9
14. MILSTRIPS/RIK	16	6			0.6		0.3							0.9
15. VIS	16	6		1.2	1.2	1.3	1.3							5.0
26. II Gen FLIR	20	8		77.5	79.0	50.8	53.9							261.1
Total Advance Procurement			0.0	260.7	373.7	172.8	194.4	0.0	0.0	0.0	0.0	0.0	0.0	1001.7

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:

February 2002

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	2.5			
1.1 Termination Liability						67.0			
2. Armor	19	1		48	Jan 02	3.2			
3. H/TEU	13								
4. Engine DECU/PROSE	20	1		103	Feb 02	16.8			
5. Transmission	19	1		103	Jul 02	16.3			
6. Final Drives	16	2		206	Feb 02	1.3			
7. Fire Control	16	1		103	Various	2.7			
8. Track	19	156		12324	Mar 02	3.9			
9. Roadwheels	16	32		3296	Feb 02	1.8			
10. Gun Mounts	16	1		52	Apr 02	2.9			
11. Gun	16	1		103	Mar 02	19.2			
12. Driver's Night Viewer	13					0.6			
13. Basic Issue Items	16					1.0			
14. MILSTRIPS/RIK	16					0.3			
15. VIS	16	1	0.0	103	Apr 02	1.3			
26. II Gen FLIR	20	1		103	Nov 01	53.9			
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:

February 2002

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	691	564	648	587	97					5378
Constant Year Cost	2252	717	708	570	643	571	92					5553
Present Value	3137	862	807	617	660	556	85					6724
AP Proposal												
Then Year Cost	2363	689	804	463	586	376	97					5378
Constant Year Cost	2563	718	824	468	582	366	92					5613
Present Value	3742	863	940	506	597	356	85					7089
AP Savings (Difference)												
Then Year Cost	260	1	113	-101	-62	-211						
Constant Year Cost	311	1	116	-102	-61	-205						60
Present Value	605	1	133	-111	-63	-200						365

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		18.7		80	Various		13.5		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	Jun 01	25.7	25.7	80	Apr 01	Jun 01	16.5	16.5	103	Feb 02		
5. Transmission	19	124	Dec 00	Dec 00	20.9	20.9	80	Dec 00	Dec 00	15.2	15.2	103	Jul 02		
6. Final Drives	16	248	Sep 00	Sep 00	1.5	1.5	160	Feb 01	Feb 01	1.1	1.1	206	Feb 02		
7. Fire Control	16	100	Various		3.2		104	Various		2.5		103	Various		
8. Track	19	19344	Sep 00	Sep 00	4.6	4.6	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	Feb 02		
10. Gun Mounts	16	62	Jul 00	Jul 00	3.4	3.4	40	Feb 01	Feb 01	2.4	2.4	52	Apr 02		
11. Gun	16	124	Mar 00	Mar 00	19.2	19.2	80	Feb 01	Feb 01	8.6	8.6	103	Mar 02		
12. Driver's Night Viewer	13	100													
13. Basic Issue Items	16	100	Dec 00	Dec 00	1.0	1.0									
14. MILSTRIPS/RIK	16	100	Various		0.6										
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					373.7	173.6				172.8	116.4				

Advance Procurement Requirements Analysis -Obligation/Expenditures (P10E)

Date: February 2002

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	373.7							0.5	0.8	0.7	0.4	1.3	1.8	5.4	368.2
FY 01															
Termination Liability Schedule	40.4														40.4
Total Expenditures	172.8														172.8
FY 02															
Termination Liability Schedule	67.0														67.0
FY 03															
Termination Liability Schedule															

Advance Procurement Requirements Analysis -Obligation/Expenditures (P10E)

Date: February 2002

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	368.2	2.3	3.3	22.4	15.5	45.2	14.3	13.1	21.1	16.6	8.7	16.4	9.9	188.9	179.4	
FY 01																
Termination Liability Schedule	40.4														40.4	
Total Expenditures	172.8						0.1	3.1	1.0	1.2	0.4	0.3	3.5	9.5	163.4	
FY 02																
Termination Liability Schedule	67.0														67.0	
FY 03																
Termination Liability Schedule																

Advance Procurement Requirements Analysis -Obligation/Expenditures (P10E)

Date: February 2002

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	179.4	20.1	23.9	28.5												72.6	106.8
FY 01																	
Termination Liability Schedule	40.4			6.1	13.7	10.5	9.6									40.4	
Total Expenditures	163.4	1.2	11.3	4.4												16.9	146.4
FY 02																	
Termination Liability Schedule	67.0							0.8	2.1	2.5	3.7	5.9	13.2			28.2	38.7
FY 03																	
Termination Liability Schedule																	

Advance Procurement Requirements Analysis-Obligation/Expenditures (P10E)

Date: February 2002

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	194.3															194.3
FY 01 Termination Liability Schedule Total Expenditures	165.1															165.1
FY 02 Termination Liability Schedule	67.0	14.4	15.9	16.7	14.0	6.0										67.0
FY 03 Termination Liability Schedule																

Advance Procurement Requirements Analysis -Obligation/Expenditures (P10E)

Date: February 2002

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	194.3															194.3
FY 01 Termination Liability Schedule Total Expenditures	165.1															165.1
FY 02 Termination Liability Schedule																
FY 03 Termination Liability Schedule																

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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		7.1	7.6	0.1	0.2	0.2	0.2	0.2		33.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.5	0.1		7.1	7.6	0.1	0.2	0.2	0.2	0.2		33.0
Initial Spares												
Total Proc Cost	17.5	0.1		7.1	7.6	0.1	0.2	0.2	0.2	0.2		33.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is essential for effective maintenance on all tracked vehicles. This system supports the 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: February 2002

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	299.4	9.7	8.8	9.2	9.9	9.9	10.4	10.6	11.3	11.6		390.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	299.4	9.7	8.8	9.2	9.9	9.9	10.4	10.6	11.3	11.6		390.8
Initial Spares												
Total Proc Cost	299.4	9.7	8.8	9.2	9.9	9.9	10.4	10.6	11.3	11.6		390.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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 Muskegon, 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: February 2002			
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					8825			9606			9580			
LIF					341			373			369			
Total					9166			9979			9949			

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	9.5	9.5	10.0	10.2	10.9	11.2		349.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	261.9	9.3	8.5	8.8	9.5	9.5	10.0	10.2	10.9	11.2		349.9
Initial Spares												
Total Proc Cost	261.9	9.3	8.5	8.8	9.5	9.5	10.0	10.2	10.9	11.2		349.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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 testing 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 items such as Emergency/Unplanned Repairs to prevent loss of resources, production interruptions, and threats to security, worker safety, and the environment. Representative projects include milling capabilities, upgrading of a grinding machine, and rehab of machining centers. At LATP, task such as rehab of weld machines, resurfacing of deteriorating asphalt and concrete, and rehab of machining centers are sample of projects to 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: February 2002

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	0.4	0.4	0.4	0.4	0.4		40.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	37.5	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4		40.9
Initial Spares												
Total Proc Cost	37.5	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4		40.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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 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 FY03 request also is to provide contractor support in the preparation/implementation of a Scope-of-Work (SOW) 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: February 2002

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	4616	1306	716	2217	2748	951	743	950		68855
Gross Cost	216.0	11.4	38.4	12.3	8.0	21.3	32.3	11.6	8.8	11.3		371.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	216.0	11.4	38.4	12.3	8.0	21.3	32.3	11.6	8.8	11.3		371.4
Initial Spares												
Total Proc Cost	216.0	11.4	38.4	12.3	8.0	21.3	32.3	11.6	8.8	11.3		371.4
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Description:

The M240B Machine Gun is a ground version of the M240 Machine Gun, 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 03 buys the M240B configuration in the Armor Machine Gun series. FY 03-05 procure the M240 Helicopter Machine Gun which replaces the M60 Machine Gun. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY03 funding procures 2,217 machine guns. The FY03 quantity also includes the requirement for an aviation version (M240) to replace the current M60 door guns. The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The 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: February 2002		
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				10293	1306	8	5638	716	8	13978	1687	9
Hardware (Infantry Version)													
Hardware (Aviation Version)											5745	530	11
2.Engineering Support - In House Support					1050			1603			1036		
3. Intergrated Logistics Support					185			100			100		
4. Engineering Change Proposals													
5. Fielding					357			290			325		
6. Engineering Studies					450			347			150		
Total					12335			7978			21334		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	FN Mfg Inc., Columbia, SC	C/FFP IDIQ	TACOM Rock Island	May 01	Jul 02	1306	8	Yes	No	
FY 2002	FN Mfg Inc., Columbia, SC	C/FFP IDIQ	TACOM Rock Island	Dec 01	Jul 04	716	8	Yes	No	
FY 2003	FN Mfg Inc., Columbia, SC	C/FFP IDIQ	TACOM Rock Island	Dec 02	Nov 04	1687	8	Yes	No	
Hardware (Infantry Version)										
Hardware (Aviation Version)										
FY 2003	FN Mfg Inc., Columbia, SC	SS/FFP	TACOM Rock Island	Jun 03	Jun 05	530	11	No	N/A	

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04													Fiscal Year 05												L A T E R
							Calendar Year 04													Calendar Year 05												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	T	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	A	Y	U	U	U	E	
Hardware (Infantry Version)																																
	1	FY 00 & Pr	A	5932	5932	0																										
	1	FY 00 & Pr	A	2678	2678	0																										
	1	FY 00 & Pr	A	438	438	0																										
	1	FY 00 & Pr	A	1500	272	1228	125	125	125	125	125	125	125	125	103																	
	1	FY 00 & Pr	FMS	10	10	0																										
	1	FY 00 & Pr	OTH	11	11	0																										
	1	FY 01	A	1306	1306	0																										
	1	FY 02	A	716	0	716										12	250	250	204													
	1	FY 02	AF	3235	1975	1260	125	125	125	125	125	125	125	125	135																	
	1	FY 02	NA	1000	1000	0																										
	1	FY 03	A	1687	0	1687											46	250	250	250	250	250	250	141								
Hardware (Aviation Version)																																
	1	FY 03	A	530	0	530															109	250	171									
Total				19043	13622	5421	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	171								

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

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	FN Mfg Inc., Columbia, SC	100.00	175.00	350.00	6	1	INITIAL	6	9	18	27	
							REORDER	0	2	12	14	
2	To Be Determined	100.00	175.00	350.00	6	2	INITIAL	6	9	18	27	
							REORDER	0	2	12	14	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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							9580	89428
Gross Cost	180.8	5.7	11.7	16.8							42.0	257.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	180.8	5.7	11.7	16.8							42.0	257.0
Initial Spares												
Total Proc Cost	180.8	5.7	11.7	16.8							42.0	257.0
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0							0.0	

Description:

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

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 89,428.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)			Weapon System Type:			Date: February 2002		
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				12408	4280	3						
Hardware	A												
GFM													
Engineering Support (In-House)					1956								
Testing (TECOM)					100								
Engineering Change Proposals (ECP's)					1043								
ILS					250								
Fielding					1075								
TDP Maintenance					12								
Total					16844								

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2001	FN Mfg Inc Columbia SC	IDIQ/FFP	TACOM-RI	Dec-00	Dec-01	4280	3	Y	N	

REMARKS:

FY 02 / 03 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)											Date: February 2002												
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					LATE 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	JUN	JUL	AUG
Hardware																														
	1	FY 99 & Pr	A	71870	71870	0																						0		
	1	FY 00	A	3198	2950	248	248																					0		
	1	FY 00	A	500	0	500	2	250	248																			0		
	1	FY 00	MC	1800	1800	0																						0		
	1	FY 01	A	4280	0	4280				2	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	28	0		
Total				81648	76620	5028	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	28			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR	NAME/LOCATION					PRODUCTION RATES			REACHED	MFR	ADMINLEAD TIME		MFR	TOTAL	REMARKS															
						MIN.	1-8-5	MAX.	D+	Number	Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct	Deliveries have slipped due to the Marine Corps qty of 1800 that were added to the contract.															
1	FN Mfg Inc, Columbia SC					250.00	1200.00	2400.00	18	1	INITIAL	7	1	9	10															
											REORDER	0	0	0	0															
											INITIAL																			
											REORDER																			
											INITIAL																			
											REORDER																			
											INITIAL																			
											REORDER																			

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	766	1517	811	1510	669						21226
Gross Cost	254.8	15.1	22.9	15.7	28.6	16.7	2.9					356.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	254.8	15.1	22.9	15.7	28.6	16.7	2.9					356.7
Initial Spares												
Total Proc Cost	254.8	15.1	22.9	15.7	28.6	16.7	2.9					356.7
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0	0.0						

Description:

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

Justification:

FY03 procures 669 MK19's in support of the Interim Armored Vehicle (IAV). During static defense operations, it will be ground employed utilizing the M3 Tripod Mount. 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). 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: February 2002		
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				12164	811	15	21862	1510	15	11588	669	18
MK64 ERC A Mounts					1676			3010			1292		
2. Round Removal Tool (GFM)					85			154			68		
3. Engineering Support (In-House)					901			1050			1050		
4. Integrated Logistics Support (ILS)					185			400			400		
5. Engineering Change Proposals (ECP's)					11			207			86		
6. Testing (TECOM)					117						322		
7. Fielding					371			363			363		
8. Quality Assurance (ARDEC)								150			150		
9. Engineering Studies								650			1000		
10. Bore Obstruction Device (BOD)					3			8			3		
11. Bags					39			79			36		
12. Arms Rack								486			219		
13. MK19 Mod Kit					152			207			86		
Total					15704			28626			16663		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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

Weapon System Type:

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware										
FY 2001	General Dynamics Land Division Saco, Maine	SS/IDIQ	TACOM - Rock Island	Jun 01	Jan 02	811	15	Yes	No	Oct 00
FY 2002	General Dynamics Land Division Saco, Maine	SS/FFP	TACOM - Rock Island	Dec 01	Oct 02	1510	15	Yes	No	
FY 2003	General Dynamics Land Division Saco, Maine	SS/FFP	TACOM - Rock Island	Dec 02	Jan 04	669	18	Yes	No	

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)												Date: February 2002												
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												L A T E R
							Calendar Year 04												Calendar Year 05												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1. Hardware																															
	1	FY 00 & PR	A	18236	18236	0																							0		
	2	FY 00	FMS	595	595	0																							0		
	2	FY 01	A	811	811	0																							0		
	2	FY 01	FMS	4	4	0																							0		
	2	FY 01	OTH	12	12	0																							0		
	2	FY 02	A	1510	1136	374	100	100	100	74																			0		
	2	FY 03	A	669	0	669				26	100	100	100	100	100	100	43												0		
Total				21837	20794	1043	100	100	100	100	100	100	100	100	100	43															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																				
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																							
1	SACO Defense, Saco, Maine	100.00	200.00	300.00	9	1	INITIAL	8	9	19	28																				
							REORDER	8	2	14	16																				
2	General Dynamics Land Division, Saco, Maine	100.00	200.00	300.00	9	2	INITIAL	8	9	19	28																				
							REORDER	8	2	12	14																				
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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											1115
Gross Cost	32.1				3.3	9.8	10.3	4.7				60.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	32.1				3.3	9.8	10.3	4.7				60.3
Initial Spares												
Total Proc Cost	32.1				3.3	9.8	10.3	4.7				60.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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 137 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. These gun tubes will be produced at Watervliet Arsenal as an Arsenal Act order. 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 52 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: February 2002		
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											1579	52	31
Unutilized Capacity Surcharge											1895	52	37
Subtotal Hardware											3474		
PRODUCTION SUPPORT													
Production Engineering - ARDEC											250		
Production Engineering Watervliet											355		
Fielding and NET											117		
Subtotal Production Support											722		
NON-RECURRING COSTS													
Value Engineering Material Change								3298			5625		
Subtotal Non-Recurring Costs								3298			5625		
TOTAL								3298			9821		
Total								3298			9821		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 FY 2003	Watervliet Arsenal Watervliet NY	SS/CR	TACOM	Jun 03	Feb 05	52	31	No	Mar 03	

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: February 2002

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	5631	19224	17945	3305			98701
Gross Cost	4.4	6.8	5.9	4.7	2.0	3.1	9.4	9.2	2.3			47.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.4	6.8	5.9	4.7	2.0	3.1	9.4	9.2	2.3			47.9
Initial Spares												
Total Proc Cost	4.4	6.8	5.9	4.7	2.0	3.1	9.4	9.2	2.3			47.9
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Description:

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

Justification:

FY 03 procures 5631 M16A4 Rifles. The M16A4 Rifle was developed as part of the Modular Weapons System (MWS) Program. The U.S. Army identified a need to improve the versatility of the M4 Carbine and the M16A2 Rifle. This was to be accomplished by providing multiple mounting surfaces on the M4 and M16A2 to allow a combination of various accessories to be simultaneously mounted on the weapons. The M4 Carbine already contained an integral rail on the upper receiver. The M16A4 provides the same capability on the rifle. Production of the M16A4 Rifle commenced in 1998, replacing the M16A2 for all future Army requirements.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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					150	600	600	600	600	545	450	3545
Gross Cost					2.1	8.9	8.9	8.9	8.9	8.1	6.8	52.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					2.1	8.9	8.9	8.9	8.9	8.1	6.8	52.7
Initial Spares												
Total Proc Cost					2.1	8.9	8.9	8.9	8.9	8.1	6.8	52.7
Flyaway U/C												
Wpn Sys Proc U/C					0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Description:

The XM107 is a Cal.50 rifle with attached optics/electro-optics that supports all weather, day/night tactical dominance via rapid-fire direct fire engagements with armor penetrating, incendiary, dual-purpose ammunition. The XM107 provides a man-portable, materiel destruction capability to the Sniper team and/or supported force and complements the anti-personnel precision fire capability of the M24 Sniper Weapon System (SWS). The Long Range Sniper Rifle (LRSR), with a family of ammunition, enables Sniper teams to employ greater destructive force at greater ranges and at a higher rate of fire that exceed the terminal effect capability of the M24 (7.62mm, bolt action) SWS. Additionally, the LRSR will replace existing non-standard, M82A1, caliber .50 rifles in Explosive Ordnance Detachments as detonation tools. The primary mission of this rifle is to engage and defeat materiel targets at extended ranges to include parked aircraft; command, control, communications, computers, and intelligence (C4I) sites; radar sites; ammunition; petroleum, oil and lubricants; and various other thin skinned (lightly armored) materiel targets out to 2000 meters. The XM107 will also be used in a counter sniper role taking advantage of the longer stand off range and increased terminal effect when opposing snipers armed with smaller caliber weapons out to 1000 meters. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The FY 03 procures 600 XM107, CAL. 50, SNIPER RIFLE (G01500). The existing service sniper rifle is the M24 SWS. With M118 long range ammunition, it has a maximum effective range of 1,000 meters against personnel targets. Countering the Threat requires attacking designated targets with decisive, overwhelming destructive force. The M24 SWS bolt action is manually operated and the rifle's internal, five-round magazine is loaded/reloaded one cartridge (7.62 mm) at a time. The M24 SWS is designed to be a precision, anti-personnel tool and cannot meet the rate of fire, or destructive capability (at any range) requirements for an anti-materiel weapon and is not effective in Explosive Ordnance Disposal. The XM107 addresses those deficiencies enabling the soldier to engage and defeat materiel targets out to ranges of 2,000 (anti-materiel) and 1,000 meters (anti-personnel).

Type Classification Date: TC STD 1Q FY 03.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: XM107, CAL. 50, SNIPER RIFLE (G01500)			Weapon System Type:			Date: February 2002		
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
1. Hardware								1778	150	12	6720	600	12
Weapons								60	150	1	244	600	1
Laser Protection Filters								142			1019		
2. ESIP QA								60			335		
3. Testing								24			150		
4. Integrated Logistical Support								42			220		
5. Fielding								28			225		
6. ECPs													
Total								2134			8913		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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 2002	Barrett Firearms Mfg. Murfrees Boro, TN	SS/FFP	TACOM-ARDEC	NOV 02	JAN 03	150	12	YES		
FY 2003	Barrett Firearms Mfg. Murfrees Boro, TN	Option	TACOM-ARDEC	JAN 03	APR 03	600	12	YES		
Laser Protection Filters										
FY 2002	TBS	C/FFP	TACOM-ARDEC	JAN 03	MAR 03	150	1	NO	OCT 02	
FY 2003	TBS	C/FFP	TACOM-ARDEC	JAN 03	JUN 03	600	1	NO	OCT 02	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	16215	2800	12505	12147	11575			477	157501
Gross Cost	48.5	4.1	5.1	10.6	2.4	9.2	9.1	9.1			0.6	98.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	48.5	4.1	5.1	10.6	2.4	9.2	9.1	9.1			0.6	98.7
Initial Spares												
Total Proc Cost	48.5	4.1	5.1	10.6	2.4	9.2	9.1	9.1			0.6	98.7
Flyaway U/C												
Wpn Sys Proc U/C		0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	

Description:

The M4 Carbine is a 5.56mm gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and will replace all M3A1 WWII era .45 Cal Submachine guns, selective M16 series rifles, and M9 pistols. It provides the individual soldier operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 Rifle. The system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 03 procures 12505 M4 Carbines. The M4 Carbine provides soldiers with a compact, lightweight weapon that can provide better self-protection and additional firepower in close quarters. The FY03/04/05 program will allow for the uninterrupted fielding in the APO sequence up to the National Guard Enhanced Brigades.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: 5.56 CARBINE M4 (G14904)			Weapon System Type:			Date: February 2002		
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				9281	16215	0.6	1852	2800	0.7	8480	12505	0.7
2. Engineering Support (In-House)					880			360			460		
3. Engineering Change Proposals (ECP's)					106								
4. Integrated Logistics Support								70			85		
5. Fielding/Transportation					367			101			130		
Total					10634			2383			9155		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

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	QTY	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
					Delivery	Each	\$			
1. Hardware										
FY 2001	Colt's Mfg Co. Inc Hartford, CT	SS/FFP Opt	TACOM-Rock Island	Mar 01	Mar 02	9978	1	Yes	No	
FY 2001	Colt's Mfg Co. Inc Hartford, CT	SS/FFP	TACOM-Rock Island	Jul 01	Jan 03	6237	1	Yes	No	
FY 2002	Colt's Mfg Co. Inc Hartford, CT	SS/FFP OPT	TACOM-Rock Island	May 02	Jul 03	2800	1	Yes	No	
FY 2003	Colt's Mfg Co. Inc Hartford, CT	SS/FFP	TACOM-Rock Island	Jan 03	Oct 03	12505	1	Yes	No	

REMARKS:

FY 02 / 03 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: 5.56 CARBINE M4 (G14904)											Date: February 2002													
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												LATE
							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	JUN	JUL	AUG	SEP	
1. Hardware																															
	1	FY 00 & PR	A	101.7	96.0	5.7	1.0	1.0	1.0	1.0	1.0	0.7																			
	1	FY 00 & PR	FMS	11.0	11.0	0.0																									
	1	FY 00 & PR	MC	0.9	0.9	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											
	1	FY 01	A	6.2	0.0	6.2														0.5	1.0	1.0	1.0	1.0	0.7						
	1	FY 02	A	2.8	0.0	2.8							A																		
	1	FY 02	AF	18.7	0.0	18.7							A				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
	1	FY 03	A	12.5	0.0	12.5														A											
Total				163.8	107.9	55.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	25.2	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MFR	NAME/LOCATION	PRODUCTION RATES				REACHED	MFR Number	ADMINLEAD TIME				MFR	TOTAL	REMARKS																	
		MIN.	1-8-5	MAX.	D+		Prior 1 Oct	After 1 Oct		After 1 Oct	After 1 Oct																				
1	Colt's Mfg Co. Inc, Hartford, CT	1.00	1.00	2.00	18	1	INITIAL	0	3	9	12																				
							REORDER	0	1	4	5																				
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04													Fiscal Year 05												L A T E R
							Calendar Year 04													Calendar Year 05												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1. Hardware																																
	1	FY 00 & PR	A	101.7	101.7	0.0																										
	1	FY 00 & PR	FMS	11.0	11.0	0.0																										
	1	FY 00 & PR	MC	0.9	0.9	0.0																										
	1	FY 01	A	10.0	10.0	0.0																										
	1	FY 01	A	6.2	6.2	0.0																										
	1	FY 02	A	2.8	2.3	0.5	0.5																									
	1	FY 02	AF	18.7	6.5	12.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7			
	1	FY 03	A	12.5	0.0	12.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0															
Total				163.8	138.6	25.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7			

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

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	Colt's Mfg Co. Inc, Hartford, CT	1.00	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: February 2002

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							10	47	40	89	87	273
Gross Cost					1.1		21.0	58.3	104.0	139.1	138.5	462.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					1.1		21.0	58.3	104.0	139.1	138.5	462.1
Initial Spares												
Total Proc Cost					1.1		21.0	58.3	104.0	139.1	138.5	462.1
Flyaway U/C												
Wpn Sys Proc U/C							2.1	1.2	2.6	1.6	1.6	

Description:

The Lightweight 155mm Towed Howitzer (LW155) is a Joint USMC/Army Program. The LW155 replaces the M198 Towed Howitzer for both services. The LW155 will be the cannon fire support for the Army's Interim Brigade Combat Teams. 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 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. The digital fire control 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 both the Legacy and Interim transition paths of the Transformation Campaign Plan (TCP).

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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			2.5	2.8	0.7	2.7	3.9	3.9	4.4			20.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			2.5	2.8	0.7	2.7	3.9	3.9	4.4			20.9
Initial Spares												
Total Proc Cost			2.5	2.8	0.7	2.7	3.9	3.9	4.4			20.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Justification:

FY03 funds two modifications as follows: Lightweight Adjustable Sight Bracket and miscellaneous modifications to improve reliability and maintainability. 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.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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

P-1 Item Nomenclature
M4 CARBINE MODS (GB3007)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 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	10.5		9.3	9.9	7.4	5.9	5.9		78.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.1	6.7	9.4	10.5		9.3	9.9	7.4	5.9	5.9		78.2
Initial Spares												
Total Proc Cost	13.1	6.7	9.4	10.5		9.3	9.9	7.4	5.9	5.9		78.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M4 Carbine Modification Program provides a close combat optic, an improved buttstock, and a modular weapon suite (which includes a rail system, a top carry sling, a flashlight mount and a permanently affixed back-up iron sight). It also provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine and an M203 Rail System which provides targeting capability for 40MM night engagements.

Justification:

FY03 will procure 12,000 Modular Weapon Systems (mounting rails) and 3880 Close Combat Optic (M68 Sights) modifications. 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. The M203 Rail System (RS) will allow the M203 weapon system to engage targets at night.

Exhibit P-40M, Budget Item Justification Sheet

Date:

February 2002

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	9.7	0.0	8.6	9.2	2.5	1.0	2.5	0.0	46.8
Close Combat Optic											
TBD2	Operational	13.7	0.5	0.0	0.7	0.8	0.0	0.0	0.0	0.0	15.7
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
M203 Rail System											
TBD5	Operational	0.0	0.0	0.0	0.0	0.0	4.9	4.9	3.4	0.0	13.2
Totals		29.2	10.5	0.0	9.3	10.0	7.4	5.9	5.9	0.0	78.2

INDIVIDUAL MODIFICATION

Date: February 2002

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																						

	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																						0

METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 2002 FY 2003 Jan 03 FY 2004 Jan 04
 Delivery Date: FY 2002 FY 2003 Dec 03 FY 2004 Dec 04

INDIVIDUAL MODIFICATION

Date: February 2002

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		24290				12000		15366											94576	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware		11.7		8.8				7.7		8.5		2.1		0.7		1.9					41.4
Equipment, Nonrecurring																					
Engineering Support		0.7		0.6				0.4		0.3		0.3		0.2		0.3					2.8
Testing		0.0																			
Integrated Logistical Support		0.2		0.1				0.3		0.2		0.1		0.1		0.1					1.1
Fielding		0.6		0.2				0.2		0.2						0.2					1.4
Engineering Study		0.1																			0.1
Interim Contractor Support																					
Installation of Hardware																					
FY 2000 & Prior Equip -- Kits	32920		10000																		42920
FY 2001 -- Kits					24290																24290
FY 2002 Equip -- Kits									12000												12000
FY 2003 Equip -- Kits																					
FY 2004 Equip -- Kits											15366										15366
FY 2005 Equip -- Kits																					
FY 2006 Equip -- Kits																					
FY 2007 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	32920	0.0	10000	0.0	24290	0.0		0.0	12000	0.0	15366	0.0		0.0		0.0		0.0		94576	0.0
Total Procurement Cost		13.3		9.7		0.0		8.6		9.2		2.5		1.0		2.5		0.0			46.8

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	2.9	4.4	4.1	7.7					29.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.0		4.1	2.9	4.4	4.1	7.7					29.3
Initial Spares												
Total Proc Cost	6.0		4.1	2.9	4.4	4.1	7.7					29.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that can be utilized in 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:

FY 03 procures 4244 M249 Rails/Bipods/Handguards. 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-40, Budget Item Justification Sheet

Date: February 2002

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

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

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 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		3.0	3.0	3.1	1.4	18.3	38.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	8.2			0.5	0.7		3.0	3.0	3.1	1.4	18.3	38.2
Initial Spares												
Total Proc Cost	8.2			0.5	0.7		3.0	3.0	3.1	1.4	18.3	38.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid change of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heatshield 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 pintle. Since the initial fielding of the M240B, various system enhancements have been identified that further improves the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. This system and the planned improvements support 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 used to replace the M60 Series Machine Gun in light infantry, mechanized infantry, armor, Rangers, Special Forces and select combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles and fortified positions. System enhancements have been identified by fielded units to further improve the reliability of this weapon system. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch and an improved, Light Weight Tripod.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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							9.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			3.3	3.5	2.8							9.6
Initial Spares												
Total Proc Cost			3.3	3.5	2.8							9.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Howitzer Improvement Program and Enhancement (HIPE) for the 155mm, M198, Medium Towed Howitzer. The HIPE program encompasses two major modifications, Hydraulic Power Assist Kit (HyPAK) and Enhancement (on-board power pack and power distribution). This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Howitzer modification is required 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 and Interim Brigade Combat Teams. The modifications applied in this program fulfill this requirement. The HIPE will greatly enhance the tactical 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.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	4.9						28.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.8	4.8	4.8	4.7	4.9	4.9						28.7
Initial Spares												
Total Proc Cost	4.8	4.8	4.8	4.7	4.9	4.9						28.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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).

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 for modernization needs. 408 M119A1 howitzers have been fielded beginning in FY 91. The Light Artillery System Improvement Plan (LASIP) modernization effort corrects known deficiencies, improves reliability, availability and maintainability (RAM), and provides minor operational enhancements.

Justification:

FY03 funding continues to meet the requirements for this program.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	4.3	2.1		2.4	2.4	2.1			66.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	43.1	5.2	4.3	4.3	2.1		2.4	2.4	2.1			66.0
Initial Spares												
Total Proc Cost	43.1	5.2	4.3	4.3	2.1		2.4	2.4	2.1			66.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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-40, Budget Item Justification Sheet

Date: February 2002

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	2.3	1.3	0.8	1.3	1.3	1.4	1.3		87.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	74.8	1.1	2.2	2.3	1.3	0.8	1.3	1.3	1.4	1.3		87.7
Initial Spares												
Total Proc Cost	74.8	1.1	2.2	2.3	1.3	0.8	1.3	1.3	1.4	1.3		87.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Justification:

FY03 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-40, Budget Item Justification Sheet

Date: February 2002

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	1.3	1.2	1.3	1.3	1.3	1.3	1.4	1.4		78.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	66.5	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.4	1.4		78.2
Initial Spares												
Total Proc Cost	66.5	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.4	1.4		78.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Provides for procurement and assembly of tool/shop sets, small arms, and gun mounts. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and ROTC unit to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance. This system supports the 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: February 2002

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

P-1 Item Nomenclature
PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 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	283.3	5.1	7.0	5.7	6.4	5.8	6.3	5.9	6.1	6.2		337.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	283.3	5.1	7.0	5.7	6.4	5.8	6.3	5.9	6.1	6.2		337.9
Initial Spares												
Total Proc Cost	283.3	5.1	7.0	5.7	6.4	5.8	6.3	5.9	6.1	6.2		337.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Weapons and Tracked Combat Vehicles and their components. The program also provides for the preserving, storing and disposing for facilities and equipment that either not required for current active production or are not needed by the Army. Provisioning of Industrial Facilities (PIF) occurs at Aberdeen Test Center, Md; White Sands Missile Range, NM; and Yuma Proving Grounds, Az. The Layaway 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 this effort that benefit the entire Army.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)			Weapon System Type:			Date: February 2002			
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					3450			3756			3165			
LIF					2293			2674			2695			
Total					5743			6430			5860			

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	3.7	3.2	3.7	3.8	4.1	4.2		270.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	236.2	3.5	4.5	3.5	3.7	3.2	3.7	3.8	4.1	4.2		270.2
Initial Spares												
Total Proc Cost	236.2	3.5	4.5	3.5	3.7	3.2	3.7	3.8	4.1	4.2		270.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Weapons and Tracked Combat Vehicles and their components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment generally provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at Aberdeen Test Center (ATC), Aberdeen Proving Ground, MD; White Sands Missile Range (WSMR), NM and Yuma Proving Ground (YPG), Yuma, AZ. This project supports all transition paths of the Army Transformation Campaign Plan (TCP).

Justification:

FY03 procures: At ATC, on-board vehicle data collection equipment for monitoring automotive and data bus performance during field shock and vibration testing; high speed toxic fumes gas and particulate analyzers for vehicle fire extinguisher testing; instrumentation and instrumentation interfaces for testing on-board computers and micro-controllers in combat vehicles; data acquisition and analysis equipment for toxic fumes testing; gun tube positioning and video equipment for fire control testing; electronic diagnostic instrumentation used to troubleshoot, calibrate, set-up, and repair sensors and data acquisition equipment; high speed digital cameras for ballistics tests and on-board data acquisition equipment for vehicle automotive tests. At WSMR, replacement of Semiconductor Test Lab instrumentation used to test complex integrated circuits for radiation survivability/vulnerability tests; instrumentation and equipment to support nuclear survivability testing of stockpile electronic piece parts for combat vehicles at the WSMR Radiation Tolerance Assured Supply and Support Center and replacement/upgraded amplifiers and antennas for electromagnetic radiation effects testing. At YPG, real-time data collection and transmitting equipment and sensors for on-board collection of automotive performance data and ballistics measurements; automation and upgrade of environmental conditioning equipment; establishment of a combat systems firing range and acoustic scoring system for fire control system testing and upgrade of gas analyzers and measurement equipment in the Material Analysis Laboratory. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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	2.3	2.7	2.7	2.6	2.1	2.0	2.0		67.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.0	1.7	2.6	2.3	2.7	2.7	2.6	2.1	2.0	2.0		67.6
Initial Spares												
Total Proc Cost	47.0	1.7	2.6	2.3	2.7	2.7	2.6	2.1	2.0	2.0		67.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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.

This project provides for the layaway in place (LIP) of 10 machines in the Army Reserve Plant (ARP) 027 and the excessing of 100 machines. Per DoD 4120.21-M-1, Chapter 1, Equipment Managers Services, this effort provides for demilling of special gages, test fixtures, special tooling (ST) and special test equipment (STE). Work also includes layaway of the manufacturing floor space in Building 220.

The increase in layaway funding in FY 2003-2004 is to help fund Watervliet Arsenal's "footprint" reduction plan. The project will continue the excessing of 389 machines, and vacating of 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 resources 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.

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: February 2002

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	2.9	4.2	3.2	2.7	2.7	2.9	3.0		84.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.7	3.0	3.1	2.9	4.2	3.2	2.7	2.7	2.9	3.0		84.5
Initial Spares												
Total Proc Cost	56.7	3.0	3.1	2.9	4.2	3.2	2.7	2.7	2.9	3.0		84.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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. 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-40, Budget Item Justification Sheet

Date: February 2002

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	5.6	2.1	0.3	2.0	2.4	1.9	2.0	2.0		32.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	12.0	2.4	5.6	2.1	0.3	2.0	2.4	1.9	2.0	2.0		32.5
Initial Spares												
Total Proc Cost	12.0	2.4	5.6	2.1	0.3	2.0	2.4	1.9	2.0	2.0		32.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This program provides small arms equipment for the soldier. Funding identified in FY00/03 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 Rail System which provides targeting capability for 40MM night engagements; a Sniper Accessory Kit that will contain a hand held wind meter, a low profile bipod, a polarized filter for a day scope, a compact cleaning kit, a ballistic calculator, a range data book, a stock pack and a drag bag (all are available as non-developmental items); 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. The Combat Ammo Pack will hold 50-100 rounds, attach directly to the M240B MMG, protect the ammo during initial forward movements and allow the soldier to better carry the weapon during forward movement firing. These items support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 03 procures 400 Combat Ammo Packs and 3200 M203 Rail Systems. 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 Rail System (RS) will allow the M203 weapon system to engage targets at night. The Soldier Enhancement Program (SEP) was established by Congress to provide essential equipment for the individual soldier such as the Sniper Accessory Kit. The M249 Mounting Kit for the FISTV/ITV enables the existing weapon mount to readily accept the M249MG. The Sniper Accessory Kit will provide the soldier with low cost ancillary equipment needed to enhance overall operational capabilities and increase lethality and survivability. The Combat Ammo Pack will protect the M240B ammunition belt during forward movements and allow the soldier to better carry the weapon while providing forward walking fire, thereby increasing lethality.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

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

P-1 Item Nomenclature
CLOSED ACCOUNT ADJUSTMENTS (GC9500)

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	23.7	0.3	0.3	0.1								24.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.7	0.3	0.3	0.1								24.5
Initial Spares												
Total Proc Cost	23.7	0.3	0.3	0.1								24.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Funds payment of valid invoices, claims, and adjustments against the closed-year Weapons and Tracked Combat Vehicles (WTCV) appropriation.

The funds in this account are required to cover payment of valid invoices on cancelled unliquidated obligations, claims, and obligational adjustments for fiscal years which have been closed in accordance with provisions of P.L. 101-510 and 31 USC 1553 as stated below:

"Subject to the provisions of paragraph (2), after the closing of an account under section 1552(a) or 1555 of this title, obligations and adjustments to obligations that would have been properly chargeable to that account, both as to purpose and in amount, before closing and that are not otherwise chargeable to any current appropriation account of the agency may be charged to any current appropriation account of the agency available for the same purpose."

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of W&TCV, Army /3/Spare and repair parts

P-1 Item Nomenclature
SPARES AND REPAIR PARTS (WTCV) (GE0150)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 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	18.4	22.7	26.1	36.9	25.4	27.8	21.0	22.1	24.0	204.7	490.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.8	18.4	22.7	26.1	36.9	25.4	27.8	21.0	22.1	24.0	204.7	490.9
Initial Spares												
Total Proc Cost	61.8	18.4	22.7	26.1	36.9	25.4	27.8	21.0	22.1	24.0	204.7	490.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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.