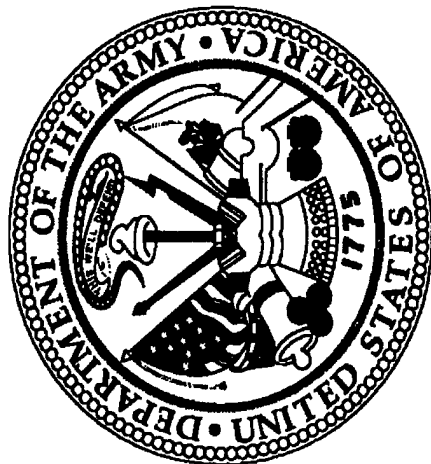


DEPARTMENT OF THE ARMY

Procurement Programs



DISTRIBUTION STATEMENT A
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Distribution Unlimited

Committee Staff Procurement Backup Book
FY 2001 Budget Estimate

WEAPONS AND TRACKED COMBAT VEHICLES

APPROPRIATION

February 2000

DTIC QUALITY INSPECTED 4

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Index for WEAPONS AND TRACKED COMBAT VEHICLES

Blin	Nomenclature	SSN	Filename	Page Number
28	ARMOR MACHINE GUN, 7.62MM M240 SERIES	G13000	32472100.01P	220
29	MACHINE GUN, 5.56MM (SAW)	G12900	35632100.01P	226
30	GRENADE LAUNCHER, AUTO, 40MM, MK19-3	G13400	36106100.01P	231
31	M16 RIFLE	G14900	37528100.01P	236
32	XM107, CAL. 50 SNIPER RIFLE	G01500	38165117.01P	242
33	5.56 CARBINE M4	G14904	38198100.01P	247
34	MARK-19 MODIFICATIONS	GB3000	33000132.01P	253
35	M4 CARBINE MODS	GB3007	33010117.01P	257
36	SQUAD AUTOMATIC WEAPON (MOD)	GZ1290	33020117.01P	267
37	MEDIUM MACHINE GUNS (MODS)	GZ1300	33030167.01P	275
38	HOWITZER, TOWED, 155MM, M198 (MODS)	GA0430	33634100.01P	281
39	M119 MODIFICATIONS	GC0401	33640100.01P	285
40	M16 RIFLE MODS	GZ2800	36456117.01P	291
41	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV (GC0925)	GC0925	39280117.01P	297
42	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	GL3200	31862100.01P	301
43	PRODUCTION BASE SUPPORT (WOCV-WTCV)	GC0050	33270144.01P	303
44	INDUSTRIAL PREPAREDNESS	GC0075	33400144.01P	305
45	SMALL ARMS (SOLDIER ENH PROG)	GC0076	34010117.01P	306
46	SPARES AND REPAIR PARTS (WTCV)	GE0150	34540107.01P	309

Index for WEAPONS AND TRACKED COMBAT VEHICLES

Blin	Nomenclature	SSN	Filename	Page Number
1	P-1 EXHIBIT			P1-1
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3	BRADLEY BASE SUSTAINMENT	G80718	32897141.01P	13
4	BRADLEY BASE SUSTAINMENT (ADV PROC)	G80718	32898141.01P	31
5	BRADLEY FVS TRAINING DEVICES	G20900	33078141.01P	37
6	HAB TRAINING DEVICES	G84600	33084101.01P	43
7	BRADLEY FVS TRAINING DEVICES (MOD)	GZ2500	33450141.01P	45
8	ABRAMS TANK TRAINING DEVICES	GB1300	36984141.01P	59
9	MEDIUM ARMORED VEHICLE	G81700	37180101.01P	65
10	COMMAND & CONTROL VEHICLE	G84200	39850141.01P	69
11	CARRIER, MOD	GB1930	30496101.01P	75
12	FIST VEHICLE (MOD)	GZ2300	31284141.01P	84
13	BFVS SERIES (MOD)	GZ2400	31678141.01P	90
14	HOWITZER, MED SP FT 155MM M109A6 (MOD)	GA0400	32072157.01P	110
15	FAASV PIP TO FLEET	GA8010	33638157.01P	116
16	IMPROVED RECOVERY VEHICLE (M88 MOD)	GA0570	33700101.01P	122
17	BREACHER SYSTEM (MOD)	GZ3200	34500101.01P	128
18	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD)	GZ3250	34520101.01P	131
19	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD)	GZ3000	35224101.01P	136
20	ARMORED VEHICLE LAUNCH BRIDGE SLEP	GZ3050	35420101.01P	138
21	M1 ABRAMS TANK (MOD)	GA0700	36406141.01P	143
22	M1A1D RETROFIT	GA0720	36430141.01P	184
23	SYSTEM ENHANCEMENT PGM: SEP M1A2	GA0730	36453141.01P	187
24	ABRAMS UPGRADE PROGRAM	GA0750	36500141.01P	194
25	ABRAMS UPGRADE PROGRAM (ADV PROC)	GA0750	36501141.01P	205
26	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV)	GA0925	38376101.01P	215
27	ITEMS LESS THAN \$5.0M (TCV-WTCV)	GL3100	33334100.01P	216
	PRODUCTION BASE SUPPORT (TCV-WTCV)	GA0050	35960144.01P	218

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST	(7)	QTY	COST	(9)	QTY	COST	(12)
(1)	(2)	(3)	(4)	(7)	(8)		(9)	(10)		(11)		
	TRACKED COMBAT VEHICLES											
1	ABRAMS TRNG DEV MOD (GA5208)				8,464			2,628			5,331	
2	BRADLEY BASE SUSTAINMENT (G80718)	B			361,638			379,945			359,389	
					361,638			379,945			359,389	
3	BRADLEY BASE SUSTAINMENT (G80718) ADVANCE PROCUREMENT (CY)										20,006	
4	BRADLEY FVS TRAINING DEVICES (G20900)	A			12,157			23,338			12,098	
5	HAB TRAINING DEVICES (G84600)				383			14,844				
6	BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	A			2,522			4,315			14,038	
7	ABRAMS TANK TRAINING DEVICES (GB1300)	A			13,298			8,050			10,504	
8	MEDIUM ARMORED VEHICLE FAMILY (G85100)	A									537,077	
9	COMMAND & CONTROL VEHICLE (G84200)		B	10	47,712			61,442				
	SUB-ACTIVITY TOTAL				446,174			494,562			958,443	

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST		QTY	COST		QTY	COST	
				(7)	(8)		(9)	(10)		(11)	(12)	
(1)	(2)	(3)	(4)									
	MODIFICATION OF TRACKED COMBAT VEHICLES											
10	CARRIER, MOD (GB1930)	A			54,998			62,810			45,111	
11	FIST VEHICLE (MOD) (GZ2300)				24,513			27,115			31,898	
12	BFVS SERIES (MOD) (GZ2400)	A			73,965			31,284			37,142	
13	HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400)	A			11,244			26,824			8,060	
14	FAASV PIP TO FLEET (GA8010)	A			3,131			229			5	
15	IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	A			53,588						68,385	
16	BREACHER SYSTEM MOD (GZ3200)							19,513				
17	HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)				49,978			81,901				
18	ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	A			960			1,437			1,692	
19	AVLB SLEP (GZ3050)	A									15,252	
20	M1 ABRAMS TANK (MOD)(GA0700)	A			25,997			31,645			36,098	
21	MIAID RETROFTT (GA07 20)										891	
22	SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)									16	36,149	
23	ABRAMS UPGRADE PROGRAM (G0750) LESS ADVANCED PROCUREMENT (PY)				688,209			680,394			551,828	
					-259,891			-260,738			-213,406	
					428,318			419,656			338,422	

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST		QTY	COST		QTY	COST	
				(7)	(8)		(9)	(10)		(11)	(12)	
(1)	(2)	(3)	(4)									
24	ABRAMS UPGRADE PROGRSM (GA0750) Adv Procurement				260,738			213,406			174,445	
25	MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)							191				
	SUB-ACTIVITY TOTAL				987,430			916,011			793,550	
	SUPPORT EQUIPMENT AND FACILITIES											
26	ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)				89			137			135	
27	PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)				9,670			8,852			9,250	
	SUB-ACTIVITY TOTAL				9,759			8,989			9,385	
	ACTIVITY TOTAL				1,443,363			1,419,562			1,761,378	

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 2. **WEAPONS AND OTHER COMBAT VEHICLES**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01	
				QTY	COST	(7)	QTY	COST	(9)	QTY	COST
(1)	(2)	(3)	(4)	(7)	(8)		(9)	(10)		(11)	(12)
WEAPONS AND OTHER COMBAT VEHICLES											
28	ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)	A		1,198	11,399		4,297	38,364		1,196	12,449
29	MACHINE GUN, 5.56MM (SAW) (G12900)	A		1,525	5,665		3,698	9,903			
30	GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	A		697	15,064		1,389	22,883		581	11,835
31	M16 RIFLE (G14900)	A		16,464	6,771		12,479	5,719		10,314	4,793
32	XM107, CAL. 50, SNIPER RIFLE (G01500)							1,133		230	3,085
33	5.56 CARBINE M4 (G14904)	A		6,310	4,194		8,687	5,286		8,309	5,190
	SUB-ACTIVITY TOTAL				43,093			83,288			37,352
MODIFICATION OF WEAPONS AND OTHER COMBAT VEH											
34	MARK-19 MODIFICATIONS (GB3000)							1,971			1,813
35	M4 CARBINE MODS (GB3007)	A			6,721			5,292			2,504
36	SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)							8,289			9,956
37	MEDIUM MACHINE GUNS (MODS)(GZ1300)	A									495
38	HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)							3,330			3,507
39	M119 MODIFICATIONS (GC0401)	A			4,772			4,763			4,705
40	M16 RIFLE MODS (GZ2800)	A			5,197			7,148			9,592
41	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)				1,118			1,002			787
	SUB-ACTIVITY TOTAL				17,808			31,795			33,359

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 2. **WEAPONS AND OTHER COMBAT VEHICLES**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST		QTY	COST		QTY	COST	
				(7)	(8)		(9)	(10)		(11)	(12)	
(1)	(2)	(3)	(4)									
	SUPPORT EQUIPMENT AND FACILITIES											
42	ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)				1,196			1,201			1,182	
43	PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)				5,140			4,546			5,152	
44	INDUSTRIAL PREPAREDNESS (GC0075)				3,000			3,070			3,604	
45	SMALL ARMS (SOLDIER ENH PROG) (GC0076)				2,365			5,133			3,506	
	SUB-ACTIVITY TOTAL											
					11,701			13,950			13,444	
	ACTIVITY TOTAL				72,602			129,033			84,155	

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 3. **SPARES AND REPAIR PARTS**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST	(7)	QTY	COST	(8)	QTY	COST	(9)
(1)	(2)	(3)	(4)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
46	**SPARES AND REPAIR PARTS**											
	SPARES AND REPAIR PARTS (WTCV) (GE0150)				20,075			22,738			29,105	
	SUB-ACTIVITY TOTAL				20,075			22,738			29,105	
	ACTIVITY TOTAL				20,075			22,738			29,105	
	APPROPRIATION TOTAL				1,536,040			1,571,333			1,874,638	

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles											ABRAMS TRNG DEV MOD (GA5208)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	18.2	3.2	2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4		60.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.2	3.2	2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4		60.1
Initial Spares												
Total Proc Cost	18.2	3.2	2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4		60.1
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 to keep simulators abreast of developments in the Abrams Tank System.

JUSTIFICATION: This program meets needs validated by the Abrams user community. Degradation of tank training will occur if these modifications are delayed or deleted. The Conduct of Fire Trainer (COFT) M60A3 to M1 Conversions are for the National Guard units. Annually, 3,016 tank gunner - commander combinations will use the modified COFT. The Conduct of Fire Trainer (COFT) M1 to M1A1, Optical Improvement (OIP) and Armament Enhancement Initiative (AEI) modifications are for units at FORSCOM, USAREUR, TRADOC, and the National Guard.

Exhibit P-40M Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No.				Date		February 2000					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 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	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Conduct of Fire Trainer (COFT) Image Generator (IG) and Computer Rehost/Applique											
1-97-05-4526	Operational	2.2	4.1	0.8	0.8	0.8	0.8	0.8	0.8	0.0	11.1
AGTS/SEP Mod											
1-97-05-4527	Operational	0.0	0.0	0.0	0.6	1.1	2.9	3.5	2.0	0.0	10.1
Tank Driver Trainer Mod (M1A2 SEP Upgrade)											
1-97-05-4528	Operational	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Close Combat Tactical Trainer (CCTT)/SEP Mod											
1-97-05-4529	Operational	0.0	0.0	0.2	0.6	2.2	1.6	1.3	0.4	0.0	6.3
Maintenance Training System (MTS) SEP Mod											
1-97-05-4530	Operational	0.0	1.0	1.6	3.3	1.4	0.2	0.2	0.2	0.0	7.9
Totals											
		2.2	8.5	2.6	5.3	5.5	5.5	5.8	3.4	0.0	38.8

INDIVIDUAL MODIFICATION																		Date		February 2000															
MODIFICATION TITLE (Cont):																		Conduct of Fire Trainer (COFT) Image Generator (IG) and Computer Rehost/Applique 1-97-05-4526																	
FINANCIAL PLAN: (\$ in Millions)																																			
FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL																	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$																
1	0.1	9	1.6	5	0.8	4	0.8	4	0.8	4	0.8	4	0.8	4	0.8			35	6.5																
	2.1		2.5																4.6																
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 1998 & Prior Eqpt -- Kits																																			
FY 1999 Eqpt -- Kits																																			
FY 2000 Eqpt -- Kits																																			
FY 2001 Eqpt -- Kits																																			
FY 2002 Eqpt -- kits																																			
FY 2003 Eqpt -- kits																																			
FY 2004 Eqpt -- kits																																			
FY 2005 Eqpt -- kits																																			
TC Equip-Kits																																			
Total Installment																																			
Total Procurement Cost																																			

INDIVIDUAL MODIFICATION												Date	February 2000																																																																																				
MODIFICATION TITLE: AGTS/SEP Mod 1-97-05-4527																																																																																																	
MODELS OF SYSTEMS AFFECTED: M1A2 Advanced Gunnery Training System																																																																																																	
DESCRIPTION / JUSTIFICATION:																																																																																																	
This funding will modify existing M1A2 Advanced Gunnery Training Simulators to represent the most recent SEP changes to the M1A2. It is cheaper to modify existing training devices than to procure new ones.																																																																																																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																																	
PLANNED										ACCOMPLISHED																																																																																							
Contractor Test and Evaluation:																																																																																																	
Initial Operational Test and Evaluation:																																																																																																	
3Q03																																																																																																	
4Q03																																																																																																	
Installation Schedule:																																																																																																	
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																													
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	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																
Inputs	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete																																																																																
Outputs	4				4				4								14	14																																																																															
METHOD OF IMPLEMENTATION: Contractor																																																																																																	
Contract Dates: FY 1999																																																																																																	
Delivery Date: FY 1999																																																																																																	
ADMINISTRATIVE LEADTIME: 6 Months																																																																																																	
PRODUCTION LEADTIME: 18 Months																																																																																																	

INDIVIDUAL MODIFICATION														
MODIFICATION TITLE: Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528														Date
MODELS OF SYSTEMS AFFECTED: M1A1 Tank Driver Trainer														
DESCRIPTION / JUSTIFICATION:														
The Tank Driver Trainer (TDT) simulates actual tank performance for beginner and transitioning drivers. It provides a range of motion and simulated environments, terrain and situations which are difficult or impossible for the driver to experience in normal training or operations. The M1A2 driver's compartment and tasks are significantly different from the M1A1. This project upgrades existing M1A1 Tank Driver Trainers at the Armor School to match student enrollment as more M1A2s enter the field.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:														
PLANNED										ACCOMPLISHED				
Contractor Test and Evaluation: 3Q00 Initial Operational Test and Evaluation: 4Q00														
Installation Schedule:														
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003				
Totals		1	2	3	4	1	2	3	4	1	2	3	4	
Inputs														
Outputs														
Totals														
Inputs														
Outputs														
Totals														
METHOD OF IMPLEMENTATION: Contractor Contract Dates: FY 1999 Jun 99 Delivery Date: FY 1999 Dec 00														
ADMINISTRATIVE LEADTIME: 6 Months										PRODUCTION LEADTIME: 12 Months				
FY 2000										FY 2001				
FY 2000										FY 2001				

INDIVIDUAL MODIFICATION																			Date		February 2000						
MODIFICATION TITLE (Cont):																			Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528								
FINANCIAL PLAN: (\$ in Millions)																											
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL								
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$							
RDT&E																											
PROCUREMENT																											
Kit Quantity			3	1.5															3	1.5							
Installation Kits				1.9																1.9							
Installation Kits, Nonrecurring Equipment																											
Equipment, Nonrecurring																											
Engineering Change Orders																											
Data																											
Training Equipment																											
Support Equipment																											
Other																											
Interim Contractor Support																											
Installation of Hardware																											
FY 1998 & Prior Eqpt -- Kits																											
FY 1999 Eqpt -- Kits																											
FY 2000 Eqpt -- Kits																											
FY 2001 Eqpt -- Kits																											
FY 2002 Eqpt -- kits																											
FY 2003 Eqpt -- kits																											
FY 2004 Eqpt -- kits																											
FY 2005 Eqpt -- kits																											
TC Equip-Kits																											
Total Installation				3.4																3.4							
Total Procurement Cost																				3.4							

INDIVIDUAL MODIFICATION														Date		February 2000				
MODIFICATION TITLE (Cont):																				
Close Combat Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits									18	2.2	8	1.6	12	1.3	4	0.4			42	5.5
Installation Kits, Nonrecurring Equipment					0.2	0.6														0.8
Equipment, Nonrecurring Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost					0.2	0.6			2.2		1.6		1.3		0.4					6.3

INDIVIDUAL MODIFICATION																																																																																																																																																																																																														
Date														February 2000																																																																																																																																																																																																
MODIFICATION TITLE: Maintenance Training System (MTS) SEP Mod 1-97-05-4530																																																																																																																																																																																																														
MODELS OF SYSTEMS AFFECTED: M1A2 Maintenance Trainers																																																																																																																																																																																																														
DESCRIPTION / JUSTIFICATION: This funding will modify existing M1A2 Maintenance Training Systems to represent the most recent SEP changes to the M1A2.																																																																																																																																																																																																														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Contractor Test and Evaluation: Initial Operational Test and Evaluation: PLANNED 3Q01 4Q01 ACCOMPLISHED																																																																																																																																																																																																														
Installation Schedule: <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="4">FY 2006</th> <th colspan="4">FY 2007</th> <th rowspan="2">To Complete</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td></td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>															Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	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 2004				FY 2005				FY 2006				FY 2007				To Complete	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		Inputs																		Outputs																	
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METHOD OF IMPLEMENTATION: Contractor Contract Dates: FY 1999 Mar 99 Delivery Date: FY 1999																																																																																																																																																																																																														
ADMINISTRATIVE LEADTIME: 6 Months FY 2000 Jan 00 FY 2000																																																																																																																																																																																																														
PRODUCTION LEADTIME: 18 Months FY 2001 Jan 01 FY 2001 Sep 01																																																																																																																																																																																																														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												BRADLEY BASE SUSTAINMENT (G80718)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	485	80	98	126	140	109	142	142	130	143	237	1812	
Gross Cost	591.8	250.9	225.2	361.6	379.9	359.4	408.3	405.7	412.5	438.8	874.9	4709.0	
Less PY Adv Proc							11.6	11.4		11.7	19.1	53.6	
Plus CY Adv Proc						20.0	2.9		26.0	4.7		53.6	
Net Proc (P-1)	591.8	250.9	225.2	361.6	379.9	379.4	399.6	394.3	438.5	431.8	855.8	4709.0	
Initial Spares	4.9	2.3	0.3	7.1	9.1	11.5	10.7	10.8	5.1	5.1	50.0	117.0	
Total Proc Cost	596.7	253.2	225.5	368.7	389.0	390.9	410.3	405.2	443.7	436.9	905.8	4826.0	
Flyaway U/C													
Wpn Sys Proc U/C	1.3	3.2	2.3	2.9	2.8	3.6	2.9	2.9	3.4	3.1	3.8	2.7	

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

JUSTIFICATION: The FY01 Budget will provide the first year of full rate of production for the A3 upgrade program. The A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

Quantities are all A0-A2's in FY96 and prior; 45 A0-A2 Linebackers and 35 A3's in FY97; 80 A0-A2ODS and 18 A3's in FY98; 53 A2ODS and 73 A3's in fy99; 60 A2ODS and 80A3's in FY00; and all A3's thereafter.

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

Exhibit P-40C Budget Item Justification Sheet									
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Item Nomenclature		Date February 2000			
Program Elements for Code B Items				Code		Other Related Program Elements			
A3 Advanced Procurement Detail (in Mils):									
FY TOA									
FY2001 for FY2002 (memo)				11.564		2001		2002	
FY2001 for FY2003 (memo)				8.442		2001		2002	
FY2002 (memo)				(11.564)		2002		2003	
FY2002 for FY2003 (memo)				2.920		2002		2003	
FY2003 (memo)				(11.362)		2003		2004	
FY2004 for FY2005 (memo)				11.657		2004		2005	
FY2004 for FY2006 (memo)				7.218		2004		2006	
FY2004 for FY2007 (memo)				7.160		2004		2007	
FY2005 (memo)				(11.657)		2005		2006	
FY2005 for FY2006 (memo)				2.344		2005		2007	
FY2005 for FY2007 (memo)				2.328		2005		2006	
FY2006 (memo)				(9.562)		2006		2007	
FY2007 (memo)				(9.488)		2007		2008	

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (G80718)				Weapon System Type:		Date: February 2000		
Cost Elements		ID	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
BRADLEY BASE SUSTAINMENT (A2)			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	Each	\$000	\$000
BRADLEY BASE SUSTAINMENT (A3)						91536		80720			6125			
						270102		299225			373270			
TOTAL						361638		379945			379395			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity / Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHs / 1 / Tracked Combat Vehicles												BRADLEY BASE SUSTAINMENT (M2A2) (G80716)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	465	45	80	53	60							703	
Gross Cost	591.8	70.7	113.4	91.5	80.7	6.1	0.0	0.0	26.1	21.6	0.0	1002.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	591.8	70.7	113.4	91.5	80.7	6.1	0.0	0.0	26.1	21.6		1002.0	
Initial Spares	4.9	2.3										7.2	
Total Proc Cost	596.7	73.0	113.4	91.5	80.7	6.1	0.0	0.0	26.1	21.6	0.0	1009.2	
Flyaway U/C													
Wpn Sys Proc U/C	1.3	1.6	1.4	1.7	1.3								

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. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

Quantities are all A0-A2's in FY96 and prior, 45 A0-A2 Linebackers FY97, and 80, 53 and 60 A0-A2ODS's in FY 98, 99 and 00 respectively.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/) (G80716)		Weapon System Type:		Date: February 2000		
Cost Elements		FY 98		FY 99		FY 00		FY 01		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
					\$000	Each	\$000	\$000	Each	\$000
1. VEHICLE					43767	53	826	50217	60	837
2. Other GFE (New)					5978	53	113	7043	60	117
3. Other GFE (Reman)					3127	53	59	2971	60	50
4. Contractor Engineering					9632			12374		
5. National Guard Fielding					4930			4911		
SUBTOTAL					67434			77516		
6. Linebacker Engineering - Contractor					4560					
7. Linebacker Engineering - Government					1650					
SUBTOTAL					6210					
8. PSE					8000			3204		6125
9. BFVS Fielding					9892					
TOTAL					91536			80720		6125

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		Weapon System Type:		P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2) (G80716)						
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date
1. VEHICLE										
FY 99	UDLP, York PA	SS/FFP	TACOM	Aug-99	Jan-01	53	826	Yes	No	
FY 00	UDLP, York PA	SS/FFP	TACOM	Mar-00	Oct-01	60	837	Yes	No	
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 1 / Tracked Combat Vehicles												BRADLEY BASE SUSTAINMENT (M2A3) (G80717)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty		35	18	73	80	109	142	142	130	143	237	1109	
Gross Cost	0.0	180.2	111.8	270.1	299.2	353.3	408.3	405.7	386.4	417.1	874.9	3707.0	
Less PY Adv Proc							11.6	11.4		11.7	19.1	53.6	
Plus CY Adv Proc						20.0	2.9		26.0	4.7		53.6	
Net Proc (P-1)	0.0	180.2	111.8	270.1	299.2	373.3	399.6	394.3	412.4	410.2	855.8	3707.0	
Initial Spares			0.3	7.1	9.1	11.5	10.7	10.8	5.1	5.1	50.0	109.8	
Total Proc Cost	0.0	180.2	112.1	277.2	308.3	384.8	410.3	405.2	417.6	415.3	905.8	3816.7	
Flyaway U/C													
Wpn Sys Proc U/C		5.1	6.2	3.8	3.9	3.5	2.9	2.9	3.2	2.9	3.8	3.4	

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

JUSTIFICATION: The FY01 Budget will provide the first full rate production year for the A3 upgrade program. The A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

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

Exhibit P-40C Budget Item Justification Sheet									
Appropriation / Budget Activity/Serial No.				Date		February 2000			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Item Nomenclature		BRADLEY BASE SUSTAINMENT (M2A3) (G80717)			
Program Elements for Code B Items				Code		Other Related Program Elements			
A3 Advanced Procurement Detail (in Mils):									
FY TOA		Fiscal Year		2001	2002	2003	2004	2005	2006 2007
FY2001 for FY2002 (memo)				11.564					
FY2001 for FY2003 (memo)				8.442					
FY2002 (memo)					(11.564)				
FY2002 for FY2003 (memo)					2.920				
FY2003 (memo)						(11.362)			
FY2004 for FY2005 (memo)							11.657		
FY2004 for FY2006 (memo)							7.218		
FY2004 for FY2007 (memo)							7.160		
FY2005 (memo)								(11.657)	
FY2005 for FY2006 (memo)								2.344	
FY2005 for FY2007 (memo)								2.328	
FY2006 (memo)									(9.562)
FY2007 (memo)									(9.488)

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3) (G80717)				Weapon System Type:		Date: February 2000	
Cost Elements		FY 98		FY 99		FY 00		FY 01					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	TotalCost	Qty	UnitCost	UnitCost
		\$000		\$000	\$000	Each	\$000	\$000	Each	\$000	Each	\$000	\$000
1. Vehicle		126480	73	1733	141575	80	1770	168761	109	1548			
2. IBAS		42482	73	582	31203	80	390	39818	109	365			
3. FLIR		37353	76	491	32778	80	410	44448	109	408			
4. Other GFE		6572	73	90	10324	80	129	9049	109	83			
5. Reman (Contractor)		11277	73	154		80	20		109				
6. Pre Mod Depot Maint		1591	73	22	1573	80		2059	109	19			
SUBTOTAL		225755			217453			264135					
7. Engineering--Government		14605			14516			14734					
8. Engineering--Contractor		17234			37773			44046					
9. Project Management Administration		3099			3115			3162					
10. Reimbursable Matrix Support		3013			3367			3454					
11. Test and Evaluation		5969			8135			1030					
SUBTOTAL		43920			66906			66426					
12. Cummins Engine Life-of-Type (LOT) Buy													
13. Peculiar Support Equipment								14418					
14. Classroom Spares		427			8068			8285					
15. Fielding					6798								
SUBTOTAL		427			14866			22703					
TOTAL		270102			299225			353264					
Gross P-1 End Cost		270102			299225			353264					
Less: Prior Year Adv Proc													
Net P-1 Full Funding Cost													
Plus: P-1 CY Adv Proc		270102			299225			353264					
Other Non P-1 Costs								20006					
Initial Spares		7070			9132			11516					
Mods													
TOTAL		277172			308357			384786					

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles					Weapon System Type:			P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A3) (G80717)			
WBS Cost Elements: Fiscal Years		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 Revisn Avail	RFP Issue Date
1. Vehicle											
FY 99		UDLP, York PA	SS/FFP	TACOM	Nov-98	Mar-00	73	1733	YES	NO	
FY 00		UDLP, York PA	SS/FFP	TACOM	May-00	Apr-01	80	1770	YES	NO	
FY 01		UDLP, York PA	MY/FFP	TACOM	Mar-01	Apr-02	109	1548	YES	NO	
2. IBAS											
FY 99		RTIS, DALLAS TX/ DRS CA	C/FFP	AMCOM	Nov-98	Feb-00	73	582	YES	NO	
FY 00		RTIS, DALLAS TX/ DRS CA	C/FFP	AMCOM	Jan-00	Feb-01	80	390	YES	NO	
FY 01		TBD	MY/FFP	AMCOM	Dec-00	Feb-02	109	365	YES	NO	
3. FLIR											
FY 99		RTIS, DALLAS TX	SS/FFP	NVL	Jan-99	Dec-99	76	491	YES	NO	
FY 00		RTIS, DALLAS TX	MY/FFP	NVL	Jan-00	Dec-00	80	410	YES	NO	
FY 01		RTIS, DALLAS TX	MY/FFP	NVL	Jan-01	Dec-01	109	408	YES	NO	
REMARKS:											
Multi year procurements (FY01-03) for Vehicle, and IBAS.											
Multi year procurement (FY00-01) for FLIR											

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles											BRADLEY BASE SUSTAINMENT (ADV PROC) (G80718)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Less PY Adv Proc												
Plus CY Adv Proc			0.0	0.0	0.0	20.0	2.9	0.0	26.0	4.7		53.6
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	20.0	2.9	0.0	26.0	4.7	0.0	53.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	20.0	2.9	0.0	26.0	4.7	0.0	53.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Advance Procurement for EOQ material.

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

Advance Procurement Requirements Analysis-Funding (P-10A)													Date: February 2000	
Appropriation / Budget Activity/Serial No:			First System Award Date: December 1999			First System Completion Date: April 2001								
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			P-1 Line Item Nomenclature / Weapon System: BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)											
(\$ in Millions)														
	PLT (mos)	When Req'd*	Prior Years	1997	1998	1999	2000	2001	2002	2003	2004	2005	To Comp	Total
Economic Order Quantity				35	18	73	80	109	142	142	130	143	237	1109
1. Vehicle	17							2.1			2.8			4.9
2. Flat Panel Display	6							0.8			1.1			1.9
3. Commander's Independent Viewer	12							4.0			5.9			9.9
4. POS/NAV	6							0.7			0.9			1.6
5. Turret Processing Unit	12							0.8			1.1			1.9
6. Hull Processing Unit	12							0.5			0.6			1.1
7. Gunner's Hand Station	6							0.2			0.3			.5
8. Commander's Hand Station	6							0.1			0.3			.4
9. Position Interface Box	6							0.2			0.3			.5
10. Transmission	6							0.6			0.8			1.4
11. Turret Drive	6							0.4			0.6			1.0
12. Turret Drive Control Unit	6							0.6			0.8			1.0
13. IBAS	13							9.0	2.9		10.5	4.7		27.1
14. Termination Liability														
Total Advance Procurement								20.0	2.9		26.0	4.7		53.6
Description: *Number of months (Column 3) refers to integration of components, not to EOQ material. EOQ funding four one four-year multiyear and one three-year multiyear.														

Advance Procurement Requirements Analysis-Budget Justification (P-10B)									
Appropriation / Budget Activity/Serial No:				Date: February 2000					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)					
(\$ in Millions)									
	PLT (mos)	Quantity Per Assembly	Unit Cost	2000		2001		Total Cost Request	Contract Forecast Date
				Qty	Contract Forecast Date	Total Cost Request	Qty		
Economic Order Quantity (EOQ)							109	Mar 01	
1. Vehicle	17	1	N/A					Mar 01	2.1
2. Flat Panel Display	6	2	N/A					Mar 01	0.8
3. Commander's Independent Viewer	12	1	N/A					Mar 01	4.0
4. POS/NAV	6	1	N/A					Mar 01	0.7
5. Turret Processing Unit	12	1	N/A					Mar 01	0.8
6. Hull Processing Unit	12	1	N/A					Mar 01	0.5
7. Gunner's Hand Station	6	1	N/A					Mar 01	0.2
8. Commander's Hand Station	6	1	N/A					Mar 01	0.1
9. Position Interface Box	6	1	N/A					Mar 01	0.2
10. Transmission	6	1	N/A					Mar 01	0.6
11. Turret Drive	6	1	N/A					Mar 01	0.4
12. Turret Drive Control Unit	6	1	N/A					Mar 01	0.6
13. IBAS	13	1	N/A					Mar 01	9.0
14. Termination Liability									
Total Advance Procurement									20.0
Description: Quantity and unit cost are not applicable. Funding is for EOQ material, not full up components.									

Advance Procurement Requirements Analysis-Present Value Analysis (P-10C)											Date: February 2000		
P-1 Line Item Nomenclature / Weapon System: BRADLEY BASE SUSTAINMENT (ADV/PROOC) (G80717)													
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles													
(\$ in Millions)													
	Pr Yrs	1997	1998	1999	2000	2001	2002	2003	2004	2005	To Comp	Total	
Proposal w/o AP Then Year Cost Constant Year Cost Present Value						36673 35947 36189	156622 150990 150482	248221 234791 232236	276250 256190 251664	276768 251630 245493	891488 775333 745015	1886022 1704881 1661079	
	AP Proposal Then Year Cost Constant Year Cost Present Value					36141 35425 35664	148849 143497 143014	220097 208189 205923	234693 217651 213805	239968 218173 212852	781373 679609 653050	1661121 1502544 1464307	
		AP Savings (Difference) Then Year Cost Constant Year Cost Present Value					532 521 525	7773 7493 7468	28124 26602 26313	41557 38539 37858	36800 33458 32642	110115 95723 91966	224901 202338 196772
			Remarks: There are currently no proposals; these are estimates.										

Advance Procurement Requirements Analysis-Execution (P-10D)												Date: February 2000											
Appropriation / Budget Activity/Serial No:												P-1 Line Item Nomenclature / Weapon System:											
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)											
(\$ in Millions)																							
												2000		2001									
												1998		1999		2000		2001					
												Contract Forecast Date		Actual Contract Date		Contract Forecast Date		Actual Contract Date					
												Qty		Total Cost Request		Total Cost Request		Qty		Contract Forecast Date			
												PLT (mos)		Contract Forecast Date		Actual Contract Date		Total Cost Request		Total Cost Request		Contract Forecast Date	
End Item												17								109		Mar 01	
1. Vehicle												6										Mar 01	
2. Flat Panel Display												12										Mar 01	
3. Commander's Independent Viewer												6										Mar 01	
4. POS/NAV												12										Mar 01	
5. Turret Processing Unit												12										Mar 01	
6. Hull Processing Unit												6										Mar 01	
7. Gunner's Hand Station												6										Mar 01	
8. Commander's Hand Station												6										Mar 01	
9. Position Interface Box												6										Mar 01	
10. Transmission												6										Mar 01	
11. Turret Drive												6										Mar 01	
12. Turret Drive Control Unit												6										Mar 01	
13. IBAS												13										Mar 01	
Total Advance Procurement																							
Description:																							
Planned advance procurement. No advance procurement history.																							

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)													Date:	February 2000		
Appropriation / Budget Activity/Serial No:													P-1 Line Item Nomenclature / Weapon System:			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles													BRADLEY BASE SUSTAINMENT (ADV PROC) (G80717)			
(\$ in Millions)																
	Total Program	1999			FY 00							Total Ob/Exp (Cum)	Ending Balance (Cum)			
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul			Aug	Sep	
FY 98 PY Termination Liability Schedule																
PY Expenditures																
FY 99 CY Termination Liability Schedule																
CY Expenditures																
FY 00 Termination Liability Schedule																
FY 01 Termination Liability Schedule																
Narrative: There is no termination liability within this advance procurement line. EOQ requirements were calculated based on a percentage of the bill of material cost and sub-contractor component cost.																

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				BRADLEY FVS TRAINING DEVICES (G20900)								
Program Elements for Code B Items:				Other Related Program Elements:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	224.9	0.6	0.0	12.2	23.3	12.1	2.6	3.2	2.5	2.5	18.2	302.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	224.9	0.6	0.0	12.2	23.3	12.1	2.6	3.2	2.5	2.5	18.2	302.0
Initial Spares												
Total Proc Cost	224.9	0.6	0.0	12.2	23.3	12.1	2.6	3.2	2.5	2.5	18.2	302.0
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. There are two configurations. One 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 version is one per mechanized infantry battalion and eight each at the USAARMS and USAIS. Total requirement is 32. The second configuration is maximized for use in the Close Combat Tactical Trainer (CCTT) simulation. The focus is on the unit level collective training in maneuver and command and control. In this configuration, BATS utilizes the Master Control Console from the CCTT and does not have the instructor/operator station. It does have drivers and squad compartments. Basis of issue for the maneuver version is 14 per installation equipped with BFVS A3s plus TRADOC requirements. Total requirement is 72.

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

Basis of issue is four per mechanized infantry battalion.

The M2A3 Maintenance Trainer will be used at the TRADOC installations 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 8 HOTT and 32 workstations for US Army Armor School.

Justification: The M2A3 is a significant departure from the earlier versions of the Bradley. The digital architecture facilitates embedded test and diagnostics and enhances crew efficiency. As a result, the maintenance concept is radically different from the M2A2ODS. The vehicle fire control system and inherent crew duties are also significantly different. The increased cost of actual vehicle hardware mandates the increased use of Trng Aids, Devices and Simulators. The requirement for these devices is the result of a detailed training analysis and they are a key part of the Training Support Plan for the M2A3. Without these devices, additional vehicles would be required in TRADOC and additional OPTEMPO funding would be required for units.

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: BRADLEY FVS TRAINING DEVICES (G20900)				Weapon System Type:		Date: February 2000	
Cost Elements			FY 98		FY 99		FY 00		FY 01		FY 01		FY 01	
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Production			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Bradley Advanced Training System (BATS) 2. Bradley Desktop Trainer (BDT) 3. Maintenance Trainers						12079	13	929	18097	14	1293	9000	8	1125
						78	8	10	460	46	10			
									4781	2	2391	3098	2	1549
TOTAL						12157			23338			12098		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000								
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:		P-1 Line Item Nomenclature:															
WBS Cost Elements:		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years		Contractor and Location		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
1. Bradley Advanced Training System (BATS)		United Defense (LP)		TACOM		Jul-99		May-00		13		929		NA		NA		NA	
FY 99		United Defense (LP)		TACOM		Jun-00		Apr-01		14		1293		NA		NA		NA	
FY 00		United Defense (LP)		TACOM		Dec-00		Nov-01		8		1125		NA		NA		NA	
FY 01																			
2. Bradley Desktop Trainer (BDT)		United Defense (LP)		TACOM		Feb-00		May-00		8		10		NA		NA		NA	
FY 99		United Defense (LP)		TACOM		Jun-00		Aug-00		46		10		NA		NA		NA	
FY 00												VAR		NA		NA		NA	
FY 01														NA		NA		NA	
3. Maintenance Trainers		TBD		STRICOM-Orlando		Mar-00		May-01		2		2391		NA		NA		NA	
FY 99		TBD		STRICOM-Orlando		Mar-01		May-02		2		1549		NA		NA		NA	
FY 00																			
FY 01																			
REMARKS:																			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												HAB TRAINING DEVICES (G84600)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	15.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	15.2	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	15.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Wolverine (Heavy Assault Bridge) Training Aids, Devices, Simulators, and Simulations (TADSS) enables the total training capability that results in combat ready Engineer and Ordnance soldiers supporting the mounted maneuver force. Wolverine TADSS provides complete training capability for operators and maintainers employing or supporting the Wolverine system. Envisioned is support to the institutional, unit, and collective level. Wolverine TADSS program provides the development of a training strategy and supporting tools to train operators, leaders, and maintainers. The program fields TADSS at both the institution and Combat Training Center.

JUSTIFICATION: Wolverine TADSS optimizes unit, institutional and CTC training effectiveness, minimizing the Operation and Support (O&S) costs associated with on-vehicle training, as well as the environmental impact the result of actual vehicle operations.

The Wolverine program has been terminated. The decision to terminate the program was based on an assessment of affordability and acceptance of operational risk against higher Army Transformation priorities.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: HAB TRAINING DEVICES (G84600)				Weapon System Type:		Date: February 2000		
Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		CD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Project Management						385					342			
2. Program Closeout TBD											14502			
TOTAL						385					14844			
Note: FY00 program is being reassessed in light of the Army's transformation.														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												P-1 Item Nomenclature: BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A												0203735A D371 Combat Vehicle Improvement Program	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	10.4	0.8	0.0	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	10.4	0.8	0.0	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0	
Initial Spares													
Total Proc Cost	10.4	0.8	0.0	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0	
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 an annual software update. These changes will effect the functionality of the Bradley Advanced Training System (BATS), Bradley Desktop Trainer (BDT), Precision Gunnery System (PGS) and the M2A3 Maintenance Trainers.
1. The introduction of the A3 requires a modification kit for PGS to interface to the digital architecture. A total of 256 mod kits are required for the Active Army.
2. The Through Sight Video system also requires a mod kit to interface to the digital architecture on the M2A3. This mod kit is a redesigned cable harness that will be used on the existing video recording device. A total of 80 kits are required for the Active Army.
3. The UCOfT modifications are designed to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It will also include installation of the Applique computer system in order to completely match the vehicle. It is following the same program for Abrams UCOfTs. A total of 125 UCOfTs will be modified in both Active and Reserve Components. Part of the total requirement is funded by STRICOM through Operations and Support Cost savings. This will insure the UCOfT will remain a viable Training Device as long as the M2A2ODS is in the inventory.
4. Procurement of the Superlevation Switchbox will continue. This component enables the army standard MILES system to interface with the M2A2ODS.
Total BOIP is approximately 900 kits for those units equipped with the M2A2ODS.

JUSTIFICATION:
This program meets the requirements as stated in the Bradley Operational Requirements Document. A degradation of training will take place if these modifications are delayed or cancelled. Without satisfactory Training Devices, additional vehicles and increased OPTEMPO funding would be required.

Exhibit P-40M Budget Item Justification Sheet											Date	February 2000	
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature										
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500)										
Program Elements for Code B Items			Code		Other Related Program Elements								
Description			Fiscal Years										
OSIP NO.	Classification		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total	
Software Upgrades													
1-96-05-4513	Operational		11.2	0.1	0.0	2.4	1.3	1.3	0.0	0.0	0.0	16.3	
Precision Gunnery Sstsem (PGS) Mods													
1-99-05-4565	Operational		0.0	1.4	0.5	6.1	0.0	0.0	0.0	0.0	0.0	8.0	
Unit Conduct Of Fire Trainer (UCOFT) Mods													
1-99-05-4566	Operational		0.0	0.3	0.0	5.5	0.0	1.2	0.0	0.0	0.0	7.0	
Through Sight Video System (TSV) Mods													
1-99-05-4567	Operational		0.0	0.1	0.4	0.0	0.3	0.6	0.0	0.0	0.0	1.4	
Maintenance Trainer Mods													
1-99-05-4568	Operational		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MILES Mods													
1-99-05-4569	Operational		0.0	0.7	3.4	0.0	0.0	1.3	0.0	0.0	0.0	5.4	
Totals													
			11.2	2.5	4.3	14.0	1.6	4.4	0.0	0.0	0.0	38.0	

INDIVIDUAL MODIFICATION																																																																																																		
MODIFICATION TITLE: Software Upgrades 1-96-05-4513														Date																																																																																				
MODELS OF SYSTEMS AFFECTED: BFV COFTs, Precision Gunnery System, BATS, Bradley Desktop Trainer, Maintenance Training Systems.																																																																																																		
DESCRIPTION / JUSTIFICATION: Description: Software updates will be required of 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 VIC 3 intercom adapter for existing Through Sight Video (TSV), Precision Gunnery System (PGS), MILES , UCFT, COFT Rehost, ODS Maintenance Trainer, and Reserve Component Equipment ODS Mods.																																																																																																		
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: <table border="1"> <thead> <tr> <th>Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>															Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				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 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																														
Inputs																																																																																																		
Outputs																																																																																																		
<table border="1"> <thead> <tr> <th></th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="4">FY 2006</th> <th colspan="4">FY 2007</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td><td>3</td><td>4</td><td></td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>Complete</td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>																FY 2004				FY 2005				FY 2006				FY 2007				To	1	2	3	4		1	2	3	4	1	2	3	4	1	2	3	4	Complete	Inputs																		Outputs																													
	FY 2004				FY 2005				FY 2006				FY 2007				To																																																																																	
1	2	3	4		1	2	3	4	1	2	3	4	1	2	3	4	Complete																																																																																	
Inputs																																																																																																		
Outputs																																																																																																		
METHOD OF IMPLEMENTATION: Contractor Contract Dates: FY 1999 4Q99 Delivery Date: FY 1999 2Q00																																																																																																		
ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 12 Months FY 2000 1Q00 FY 2001 1Q01 FY 2002 1Q02																																																																																																		

INDIVIDUAL MODIFICATION													Date		February 2000						
Software Upgrades 1-96-05-4513																					
MODIFICATION TITLE (Cont):																					
FINANCIAL PLAN: (\$ in Millions)																					
RD&E PROCUREMENT Software Mods -A2 Software Mods -A3	FY 1998 and Prior Qty	\$	FY 1999 Qty	\$	FY 2000 Qty	\$	FY 2001 Qty	\$	FY 2002 Qty	\$	FY 2003 Qty	\$	FY 2004 Qty	\$	FY 2005 Qty	\$	TC Qty	\$	TOTAL Qty	\$	
	11.2		0.1				2.4		1.3		1.3									11.2	
																				5.1	
Installation of Hardware FY 1998 & Prior Eqpt -- Kits FY 1999 Eqpt -- Kits FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits FY 2002 Eqpt -- kits FY 2003 Eqpt -- kits FY 2004 Eqpt -- kits FY 2005 Eqpt -- kits TC Equip-Kits Total Installation Total Procurement Cost	11.2		0.1				2.4		1.3		1.3								16.3		

INDIVIDUAL MODIFICATION															Date	February 2000
MODIFICATION TITLE: Precision Gunnery Ststem (PGS) Mods 1-99-05-4565																
MODELS OF SYSTEMS AFFECTED: BFV Precision Gunnery System																
DESCRIPTION / JUSTIFICATION:																
The introduction of the A3 requires a modification kit for PGS to interface to the digital architecture. A total of 256 mod kits are required for the Active Army.																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																
Preliminary Design Review NA																
Critical Design Review NA																
Contractor Test & Evaluation NA																
Initial Operational Test and Evaluation NA																
IPR Production Decision NA																
TDP Available NA																
Installation Schedule:																
Pr Yr	FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																
Outputs																
Inputs																
Outputs																
Totals																
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	128
																128
METHOD OF IMPLEMENTATION: Contractor																
Contract Dates: FY 1999 Aug 99																
Delivery Date: FY 1999 Aug 00																
ADMINISTRATIVE LEADTIME: 11 Months																
PRODUCTION LEADTIME: 12 Months																
FY 2000 Dec 00																
FY 2001 Jul 01																
FY 2001 NA																

INDIVIDUAL MODIFICATION																				
Precision Gunnery Sstsem (PGS) Mods 1-99-05-4565																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity			28	1.4	0		228	6.1											256	7.5
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				0.5
NOTE: Application costs are included in procurement unit cost																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment				1.4		0.5		6.1												8.0
Total Procurement Cost																				

INDIVIDUAL MODIFICATION												Date	February 2000																																																																			
MODIFICATION TITLE: Unit Conduct Of Fire Trainer (UCOFT) Mods 1-99-05-4566																																																																																
MODELS OF SYSTEMS AFFECTED: UCOFT, COFT																																																																																
DESCRIPTION / JUSTIFICATION:																																																																																
The UCOFT modifications are designed to replace out-of-date Computer and Image Generator hardware with state-of-the-art equipment. It will also include installation of the Applique computer system in order to completely match the vehicle. It is following the same program for Abrams UCOFTs. A total of 125 UCOFTs will be modified in both Active and Reserve Components. Part of the total requirement is funded by STRICOM through Operations and Support Cost savings. This will insure the UCOFT will remain a viable Training Device as long as the M2A2ODS is in the inventory.																																																																																
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:																																																																																
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Pr Yr	FY 1999			FY 2000			FY 2001			FY 2002			FY 2003																																																																			
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																
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	FY 2004			FY 2005			FY 2006			FY 2007			Totals																																																																			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																	
Inputs																																																																																
Outputs																																																																																
METHOD OF IMPLEMENTATION: Contractor																																																																																
Contract Dates: FY 1999 Jul 99																																																																																
Delivery Date: FY 1999 Jul 00																																																																																
ADMINISTRATIVE LEADTIME: NA																																																																																
PRODUCTION LEADTIME: 12 Months																																																																																
FY 2001 Jul 01																																																																																
FY 2001 Jul 02																																																																																

INDIVIDUAL MODIFICATION												
Date February 2000												
Unit Conduct Of Fire Trainer (UCOFT) Mods 1-99-05-4566												
MODIFICATION TITLE (Cont):												
FINANCIAL PLAN: (\$ in Millions)												
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E												
PROCUREMENT												
Kit Quantity			10	0.3								
UCOFT												
COFT Rehost											5	1.2
RSRV Comp. Equipt ODS Mods							10	2.5				
Equipment, Nonrecurring							14	3.0				
Engineering Change Orders												
Data												
Training Equipment												
Support Equipment												
Other												
Interim Contractor Support												
NOTE: Application costs are included in procurement unit cost												
Installation of Hardware												
FY 1998 & Prior Eqpt -- Kits												
FY 1999 Eqpt -- Kits												
FY 2000 Eqpt -- Kits												
FY 2001 Eqpt -- Kits												
FY 2002 Eqpt -- kits												
FY 2003 Eqpt -- kits												
FY 2004 Eqpt -- kits												
FY 2005 Eqpt -- kits												
TC Equip-Kits												
Total Installment											1.2	
Total Procurement Cost			0.3				5.5					
												7.0

INDIVIDUAL MODIFICATION														February 2000						
Through Sight Video System (TSV) Mods 1-99-05-4567														Date						
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT					15	0.4	0		25	0.3	70	0.6							110	1.3
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring Engineering Change Orders																				
Data																				0.1
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
NOTE: Application costs are included in procurement unit cost																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost			0.1		0.4					0.3	0.6									1.4

INDIVIDUAL MODIFICATION															
														Date	
														February 2000	
MODIFICATION TITLE:															
MODELS OF SYSTEMS AFFECTED:															
DESCRIPTION / JUSTIFICATION:															
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:															
		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003					
Pr Yr															
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	
Inputs															
Outputs															
		FY 2004		FY 2005		FY 2006		FY 2007		To		Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	Complete		
Inputs															
Outputs															
METHOD OF IMPLEMENTATION: Contractor															
Contract Dates:		FY 1999		Enter Date		FY 2000		Enter Date		6 Months		FY 2001		Mar 01	
Delivery Date:		FY 1999		Enter Date		FY 2000		Enter Date		12 Months		FY 2001		Mar 02	

INDIVIDUAL MODIFICATION													Date		February 2000					
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		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																				
NOTE: Application costs are included in procurement unit cost																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- Kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost																				

INDIVIDUAL MODIFICATION														Date	February 2000					
MODIFICATION TITLE (Cont):														MILES Mods 1-99-05-4569						
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
MILES Superelevation box			120	0.2	300	0.3													420	0.5
MILES VIS Adapter			80	0.1	150	0.1													230	0.2
MILES TOW Bracket				0.4																0.4
SAWE/MILES					53	3.0					65	1.3							118	4.3
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
NOTE: Application costs are included in procurement unit cost																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost			0.7		3.4						1.3								5.4	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												ABRAMS TANK TRAINING DEVICES (GB1300)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	45.8	12.5	13.1	13.3	8.1	10.5	11.7	12.0	12.9	5.8		145.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	45.8	12.5	13.1	13.3	8.1	10.5	11.7	12.0	12.9	5.8		145.7	
Initial Spares													
Total Proc Cost	45.8	12.5	13.1	13.3	8.1	10.5	11.7	12.0	12.9	5.8		145.7	
Flwyway 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.
- SEP Integration - This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.

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

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)				Weapon System Type:		Date: February 2000					
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000
			TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each							
Advance Gunnery Training System (AGTS)																	
1) Production																	
2) Government Support																	
3) First Article Test																	
4) Non Recurring Cost																	
SUBTOTAL																	
M1A2 Maintenance Trainers																	
1) Production																	
2) Government Support																	
3) First Article Test																	
4) Non Recurring Cost																	
SUBTOTAL																	
M1A2 Non System Integration Kits																	
1) Production																	
2) Government Support																	
3) First Article Test																	
4) Non Recurring Cost																	
SUBTOTAL																	
M1A2 Software Upgrades																	
1) Production																	
2) Government Support																	
3) First Article Test																	
4) Non Recurring Cost																	
SUBTOTAL																	
SEP Integration																	
1) Production																	
2) Government Support																	
3) First Article Test																	
4) Non Recurring Cost																	
SUBTOTAL																	
TOTAL																	

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles					Weapon System Type:			P-1 Line Item Nomenclature: ABRAMS TANK TRAINING DEVICES (GB1300)				
WBS Cost Elements: Fiscal Years		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 Revis Avail	RFP Issue Date
Advance Gunnery Training System (AGTS)												
FY99	Lockheed Martin, Orlando, FL		C-FFP	STRICOM	Nov-98	Oct-00	8	1178	Yes	No	N/A	
FY00	Lockheed Martin, Orlando, FL		C-FFP	STRICOM	Nov-99	Oct-01	2	1156	Yes	No	N/A	
FY01	Lockheed Martin, Orlando, FL		C-FFP	STRICOM	Mar-01	Mar-03	9	1025	Yes	No	N/A	
M1A2 Maintenance Trainers												
FY00	Research Triangle Institute (RTI), Charlotte, NC		C-FFP	STRICOM	Dec-99	Oct-00	2	1075	Yes	No	N/A	
M1A2 Non System Integration Kits 1/												
FY99	Various		C-FFP	STRICOM	Aug-99	Nov-99	VAR	VAR	No	No	N/A	
FY00	Various		C-FFP	STRICOM	Mar-00	Jun-01	VAR	VAR	No	No	N/A	
M1A2 Software Upgrades 2/												
FY99	Various		C-FFP	STRICOM	Mar-99	Mar-00	VAR	VAR	No	No	N/A	
FY00	Various		C-FFP	STRICOM	Mar-00	Mar-01	VAR	VAR	No	No	N/A	
FY01	Various		C-FFP	STRICOM	Mar-01	Mar-02	VAR	VAR	No	No	N/A	
SEP Integration												
FY99	Lockheed Martin, Orlando, FL		C-FFP	STRICOM	Feb-99	Mar-00	VAR	VAR	No	No	N/A	
FY00	Lockheed Martin, Orlando, FL		C-FFP	STRICOM	Feb-00	Mar-01	VAR	VAR	No	No	N/A	
FY01	Various		C-FFP	STRICOM	Feb-01	Mar-02	VAR	VAR	No	No	N/A	
REMARKS: 1/ M1A2 Non-System Integration Kits provide system unique kits allowing the installation of Non-System Training Devices, such as Thru Sight Video (TSV), Tank Weapon Gun Simulation System (TWGSS), Precision Range Integrated Maneuver Exercise (PRIME), and Multiple Integrated Laser Engagement System (MILES) onto the M1A2 tank. 2/ M1A2 trainer software upgrades update M1A2 training devices to keep pace with changes in the M1A2 tank.												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nonreliance:	
PROCUREMENT OF WPNS & TRKD CMVT VEHS / 1 / Tracked Combat Vehicles												MEDIUM ARMORED VEHICLE FAMILY (G85100)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	TBD	537.1	1007.2	898.1	853.4	1036.6	0.0	4332.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	TBD	537.1	1007.2	898.1	853.4	1036.6	0.0	4332.4	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	TBD	537.1	1007.2	898.1	853.4	1036.6	0.0	4332.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Brigade Combat Team (BCT), equipped with Medium Armored Vehicles (MAVs), 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. Variants within the Family of Medium Armored Vehicle (MAVs) are:

Infantry Carrier Vehicle: 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.

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.

Reconnaissance Vehicle: The Reconnaissance Vehicle provides force situational awareness, gathering and transmitting real time intelligence while moving throughout the battlefield in close, complex and urban terrain.

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 battalions, reinforces the brigade reconnaissance squadron, and provides long-range direct fires.

Command and Control/TOC Vehicle: The Command and Control/TOC vehicle provides the brigade with the means to receive information and data, analyze, prepare and transmit data, and control the forces/functions carrying out combat missions.

Exhibit P-40C Budget Item Justification Sheet			Date February 2000
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles	P-1 Item Nomenclature MEDIUM ARMORED VEHICLE FAMILY (G85100)		
Program Elements for Code B Items	Code	Other Related Program Elements	
Mortar Carrier: The Mortar Carrier will support infantry units with screening obscuration, suppressive forces and on-call supporting fires. 120mm and 81mm mortar carrier variants provide complementary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault. Self-Propelled Howitzer: The Self-Propelled Howitzer provides indirect fire support capabilities beyond what can be ranged by the Mortar Carrier. It provides pro-active counterfire for the brigade. Engineer Vehicle: The Engineer Vehicle (EV) 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. Striker/Fire Support Team Vehicle: The Striker/Fire Support Team Vehicle provides automated enhanced surveillance, target acquisition, target identification, target tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter. NBC Reconnaissance Vehicle: The Nuclear, Biological, Chemical (NBC) Reconnaissance Vehicle provides on the move and remote near-real-time nuclear, biological and chemical detection and surveillance to supply battlefield visualization of NBC hazards. Medical Evacuation/Medical Treatment Vehicle: The Medical Evaluation/Medical Treatment Vehicle is the Battalion Aid Station for brigade units, providing critical treatment for serious injury and advanced trauma cases. JUSTIFICATION: FY01 funds support the procurement of one Brigade Combat Team (BCT) equipped with Medium Armored Vehicles. An immediate need exists for a Medium Armored Vehicle (MAV) 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 MAV-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.			

Exhibit P-5, Weapon WTCV Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: MEDIUM ARMORED VEHICLE FAMILY (G85100)				Weapon System Type:		Date: February 2000		
Cost Elements		ID	CD	FY 98			FY 99			FY 00			FY 01			
				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
				\$000	Each	\$000	\$000	Each	\$000	TBD	Each	\$000	516300	TBD	\$000	TBD
1. Medium Armored Vehicle Family Vehicles										TBD				20800		
2. Program Management Support																
TOTAL														537100		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		Weapon System Type:		P-1 Line Item Nomenclature: MEDIUM ARMORED VEHICLE FAMILY (G85100)							
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date	
1. Medium Armored Vehicle Family Vehicles	TBS	TBD	TACOM	Jul-00	TBD	TBD	TBD	NA	NA	Mar 00	
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												COMMAND & CONTROL VEHICLE (G84200)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A												PE 0604640A Advanced Command and Control Vehicle	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty		5	5	10								20	
Gross Cost	0.0	48.8	29.6	47.7	61.4							187.5	
Less PY Adv Proc													
Plus CY Adv Proc													
	0.0	48.8	29.6	47.7	61.4							187.5	
Initial Spares			0.9	2.5	2.6							5.9	
Total Proc Cost	0.0	48.8	30.5	50.2	64.0	0.0	0.0	0.0	0.0	0.0	0.0	193.4	
Flyaway U/C													
Wpn Sys Proc U/C		9.8	6.1	5.0								9.7	

DESCRIPTION: The Command and Control Vehicle (C2V) provides a fully tracked, armored vehicle based on Bradley A2 and MLRS designs and components. C2V was developed in response to lessons learned during Operation Desert Storm. It supports the Army heavy force Digitization Effort, incorporating communications and electronic systems compatible with Army Tactical Command and Control systems (ATCCS). It provides a mobile, responsive, and survivable command and control capability to the heavy force, and the platform to support command and control on the move.

The program is terminated to support the Army's transformation. The FY00 program is being reassessed in light of the transformation initiative.

JUSTIFICATION: This program was initiated as a result of deficiencies in existing command and control vehicles identified during Operation Desert Storm.

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		P-1 Line Item Nomenclature: COMMAND & CONTROL VEHICLE (G34200)		Weapon System Type:		Date: February 2000	
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01	
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each
1		Vehicle			18320	10	1832	26153	2179	
2		Transmission			1486	10	149	1800	150	
3		Other GFE			403	10	40	512	43	
4		Mission Module Components			5252	18	292			
		SUBTOTAL			25461			28465		
5		Tooling/Other Non-Recurring						1828		
6		FAT/Qual of Vendors								
		SUBTOTAL						1828		
7		Test			632			2161		
8		Engr Govt			2088			2109		
9		Engr Cntr			10462			19261		
10		Proj Mgt Admin			650			657		
11		Reimbursable Matrix			368			466		
12		Software Support			448			452		
13		Logistics			3603			6043		
14		TMDE			4000					
		TOTAL			47712			61442		

Exhibit P-5a, Budget Procurement History and Planning												
Date: February 2000												
P-1 Line Item Nomenclature: COMMAND & CONTROL VEHICLE (G84200)												
Weapon System Type:												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												
WBS Cost Elements: Fiscal Years		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 Revisn Avail	RFP Issue Date
1 Vehicle		UDLP, York, PA UDLP, York, PA		SS/FFP SS/FFP	TACOM TACOM	Dec-98 TBD *	Jun-00 TBD *	10 12	1832 2179			
2 Transmission		GDLS, Muskegon, MI GDLS, Muskegon, MI		SS/FFP SS/FFP	TACOM TACOM	Mar-99 TBD *	Apr-00 TBD *	10 12	149 150			
4 Mission Module Components		L3 Comm. Sys., Camden, NJ		FP-Op	CECOM	Dec-98	Jun-00	18	292			
FY 99												
FY 00												
FY 99												
FY 00												
REMARKS: L3Comm Systems, Camden, NJ - L3 Communications Systems, Camden, NJ TBD * In light of shutdown and termination of this program.												

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles											CARRIER, MOD (GB1930)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	663.7	44.7	39.5	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1678.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	663.7	44.7	39.5	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1678.6
Initial Spares	3.5											3.5
Total Proc Cost	667.2	44.7	39.5	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1682.1
Flyaway U/C												
Wpn Sys Proc U/C												

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

JUSTIFICATION:

- CREW CHEMICAL PROTECTION:** Provides the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes mounting provisions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Installation will occur during vehicle conversions to the A3 configuration. Vehicle conversion will be done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.
- BLOCK 1 (A3) MODIFICATION:** Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine coupled with a new transmission. This powertrain replaces less reliable components and results in reduced Operations and Support (O&S) costs while increasing mobility to keep up with the M1 Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. Vehicle conversion to the A3 configuration will be done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.

Exhibit P-40C Budget Item Justification Sheet			Date	February 2000
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		P-1 Item Nomenclature CARRIER, MOD (GB1930)		
Program Elements for Code B Items		Code	Other Related Program Elements	
3. DRIVER'S NIGHT VIEWER: 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 has been adapted for use on the M113 FOV. The driver's night viewer enhances operational capability by providing capability for travelling in darkness and low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.				

Exhibit P-40M Budget Item Justification Sheet													
Appropriation / Budget Activity/Serial No.				P-1 Item Nomenclature				Date					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				CARRIER, MOD (GB1930)				February 2000					
Program Elements for Code B Items				Other Related Program Elements									
				Fiscal Years									
Description	OSIP NO.	Classification		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Crew Chemical Protection													
1-91-05-4311		Oper Capability		0.8	0.8	1.6	0.8	1.0	0.9	1.0	1.0	12.2	20.1
Block 1													
1-84-05-4026		Oper Capability		362.9	53.4	59.2	43.2	45.6	44.1	46.2	46.2	547.7	1,248.5
Driver's Night Viewer													
1-94-05-4463		Oper Capability		3.4	0.8	2.0	1.1	1.5	1.3	1.5	1.4	16.2	29.2
Totals				367.1	55.0	62.8	45.1	48.1	46.3	48.7	48.6	576.1	1,297.8

INDIVIDUAL MODIFICATION												Date	February 2000
MODIFICATION TITLE: Crew Chemical Protection 1-91-05-4311													
MODELS OF SYSTEMS AFFECTED: M113A3, M577A3, M1068A3													
DESCRIPTION / JUSTIFICATION:													
Provides the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes mounting provisions, blowers, filters, and air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Installation will occur during vehicle conversions to the A3 configuration. Vehicle conversion will be done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:													
PLANNED ACCOMPLISHED													
Updated TDP Available: March 99													
Installation Schedule:													
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003			
Totals		1	2	3	4	1	2	3	4	1	2	3	4
Inputs						66	66	66	66	66	66	66	66
Outputs													
Totals		36	37	36	37	38	39	38	39	38	39	38	39
Inputs		44	36	37	36	37	38	38	38	38	38	38	38
Outputs													
Totals		1	2	3	4	1	2	3	4	1	2	3	4
Inputs		36	37	36	37	38	39	38	39	38	39	38	39
Outputs		44	36	37	36	37	38	38	38	38	38	38	38
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586	1586
Inputs		2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591	2591
Outputs													
Totals		1586											

INDIVIDUAL MODIFICATION														Date		February 2000				
MODIFICATION TITLE (Cont): Crew Chemical Protection 1-91-05-4311																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity					264	1.6	138	0.6	174	0.9	146	0.8	153	0.9	130	0.9	1586	10.9	2591	16.6
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits							264	0.2											264	0.2
FY 2000 Eqpt -- Kits									138	0.1									138	0.1
FY 2001 Eqpt -- Kits											174	0.1							174	0.1
FY 2002 Eqpt -- kits													146	0.1					146	0.1
FY 2003 Eqpt -- kits															153	0.1			153	0.1
FY 2004 Eqpt -- kits																	130	0.1	130	0.1
FY 2005 Eqpt -- kits																	1586	1.2	1586	1.2
TC Equip-Kits																				
Total Installment							264	0.2	138	0.1	174	0.1	146	0.1	153	0.1	1716	1.3	2591	1.9
Total Procurement Cost							1.6	0.8	1.0	0.9	1.0	0.9	1.0	1.0	1.0	1.0	12.2		20.1	
			0.8																	

INDIVIDUAL MODIFICATION																																																																																																																						
MODIFICATION TITLE: Block 1 1-84-05-4026										Date																																																																																																												
MODELS OF SYSTEMS AFFECTED: M113A2, M577A2, M981, M1059, M1064, M1068, OSV, M58																																																																																																																						
DESCRIPTION / JUSTIFICATION: Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine coupled with a new transmission. This powertrain replaces less reliable components and results in reduced Operations and Support (O&S) costs while increasing mobility to keep up with the M1 Abrams and Bradley Fighting Vehicle System fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. Vehicle conversion to the A3 configuration will be done, in Department of the Army Master Priority List (DAMPL) sequence, at depot or contractor facilities.																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED ACCOMPLISHED																																																																																																																						
IPR Production Decision: May 86 June 86																																																																																																																						
TDP Available:																																																																																																																						
Installation Schedule:																																																																																																																						
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																																		
Totals	1214	40	40	41	41	47	47	47	47	72	72	72	72	72	72	72	73	34	35	34																																																																																																		
Inputs	975	80	80	81	80	80	47	47	47	72	72	72	72	73	34	35	34	35	43	44																																																																																																		
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Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																					
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METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months																																																																																																																						
Contract Dates: FY 1999 December 98 FY 2000 January 00 FY 2001 January 01																																																																																																																						
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INDIVIDUAL MODIFICATION																			Date		February 2000	
Block 1 1-84-05-4026																						
MODIFICATION TITLE (Cont):																						
FINANCIAL PLAN: (\$ in Millions)																						
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E																						
PROCUREMENT																						
Kit Quantity	2564	279.4	202	30.4	264	38.4	138	22.5	174	28.3	146	25.3	153	27.8	130	26.4	1586	324.2	5357	802.7		
Installation Kits																						
Installation Kits, Nonrecurring																						
Equipment		3.4																		3.4		
Equipment, Nonrecurring																						
Engineering Change Orders																						
Data		42.9																		42.9		
PM Support-Govt				2.3		2.4		2.5		2.7		2.7		2.8		2.9		33.9		52.2		
System Tech Support -Contr				0.6		1.3		1.5		1.6		1.7		1.8		1.8		22.2		32.5		
Other		5.0																		5.0		
Interim Contractor Support				13.1		9.8		6.7		6.2		6.4		6.4		6.6		76.2		131.4		
Pre-Conversion/Modification				1.2		0.9		1.2		1.2		0.8		0.7		0.8		8.5		16.3		
FDT		5.2		1.5		1.0		1.2		1.0		1.1		1.1		1.2		14.1		27.4		
TPF																						
Installation of Hardware																						
FY 1998 & Prior Eqpt -- Kits	1157	25.8	230	4.5															1387	30.3		
FY 1999 Eqpt -- Kits					202	5.4													202	5.4		
FY 2000 Eqpt -- Kits							264	7.6											264	7.6		
FY 2001 Eqpt -- Kits									138	4.6									138	4.6		
FY 2002 Eqpt -- kits											174	6.1							174	6.1		
FY 2003 Eqpt -- kits													146	5.6					146	5.6		
FY 2004 Eqpt -- kits															153	6.5			153	6.5		
FY 2005 Eqpt -- kits																	130	5.2	130	5.2		
TC Equip-Kits																	1586	63.4	1586	63.4		
Total Installation	1157	25.8	230	4.5	202	5.4	264	7.6	138	4.6	174	6.1	146	5.6	153	6.5	1716	68.6	4180	134.7		
Total Procurement Cost		362.9		53.4		59.2		43.2		45.6		44.1		46.2		46.2		547.7		1248.5		

INDIVIDUAL MODIFICATION																																																																																																																						
														Date																																																																																																								
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MODIFICATION TITLE: Driver's Night Viewer 1-94-05-4463																																																																																																																						
MODELS OF SYSTEMS AFFECTED: M113 Family of Vehicles																																																																																																																						
DESCRIPTION / JUSTIFICATION: 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 has been adapted for use on the M113 FOV. The driver's night viewer enhances operational capability by providing capability for travelling in darkness and low visibility conditions equal to that on the M1 Abrams and Bradley Fighting Vehicle systems.																																																																																																																						
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																																		
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Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																					
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Inputs	36	37	36	37	38	38	38	39	32	33	32	33	33				1586	3175																																																																																																				
Outputs	44	36	37	36	37	38	38	38	39	32	33	32	33				1586	3175																																																																																																				
METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 24 Months PRODUCTION LEADTIME: 3 Months																																																																																																																						
Contract Dates: FY 1999 January 99 FY 2000 January 00 FY 2001 January 01																																																																																																																						
Delivery Date: FY 1999 April 99 FY 2000 April 00 FY 2001 April 01																																																																																																																						

INDIVIDUAL MODIFICATION														Date		February 2000				
Driver's Night Viewer 1-94-05-4463																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		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	382	3.0	202	0.6	264	1.8	138	0.9	174	1.3	146	1.0	153	1.2	130	1.0	1586	12.2	3175	23.0
Installation of Hardware FY 1998 & Prior Eqpt -- Kits FY 1999 Eqpt -- Kits FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits FY 2002 Eqpt -- kits FY 2003 Eqpt -- kits FY 2004 Eqpt -- kits FY 2005 Eqpt -- kits TC Equip-Kits Total Installment Total Procurement Cost	200	0.2	182	0.2	202	0.2	264	0.2	138	0.2	174	0.3	146	0.3	153	0.4	1716	4.0	3175	6.0

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												FIST VEHICLE (MOD) (GZZ300)	
Program Elements for Code B Items:												Other Related Program Elements:	
0203735A													
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty			19	27	26	29	42	77	48	48		316	
Gross Cost	0.0	0.0	15.2	24.5	27.1	31.9	35.7	47.1	47.3	38.0	15.0	281.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	15.2	24.5	27.1	31.9	35.7	47.1	47.3	38.0	15.0	281.9	
Initial Spares													
Total Proc Cost	0.0	0.0	15.2	24.5	27.1	31.9	35.7	47.1	47.3	38.0	15.0	281.9	
Flyaway U/C													
Wpn Sys Proc U/C			.8	.9	1.0	1.1	.9	.6	1.0	.8			

DESCRIPTION: The Bradley Fire Support Vehicle (BFIST) integrates Mission Equipment Packages into a Bradley Fighting Vehicle to support heavy maneuver force operations. The BFIST replaces the aging M981 Fire Support Vehicle for fire mission planning, support and execution for maneuver company commanders. The Fire Support Team is attached to a mechanized infantry or armor company and is primarily responsible for developing and executing fire support plans that enable success on the battlefield. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as other Bradley maneuver units.

JUSTIFICATION: The current Fire Support Vehicle M981 was unable to maintain the operational tempo of Bradley/Abrams equipped maneuver forces during Operation Desert Storm (ODS). The A3 BFIST will displace fielded BFIST ODS vehicles. Those displaced vehicles will be modernized overhauled, then fielded to units that have not previously received the BFIST vehicle. Additionally, the M981 displayed a number of operational deficiencies and shortcomings remedied by the BFIST design. The BFIST provides synchronization of combined arms operations.

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZZ300)			Weapon System Type:			Date: February 2000		
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			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				9709	27	360	7240	26	278	7510	29	259
		2. MEP				5813	21	277	2047	27	76	2228	29	77
		3. Pre-Mod Depot Maintenance							7589	26	292	8579	29	296
		SUBTOTAL				15522			16876			18317		
		Non Recurring Production												
		3. Engineering Contractor				1123			2920			5170		
		4. Engineering Government				1348			1108			1329		
		5. Program Management Administration				404			332			398		
		6. Reimbursable Matrix Support				334			375			329		
		7. Fielding				1440			5604			5955		
		8. Test & Evaluation				342						400		
		9. TMDE (DSETS)				4000								
		SUBTOTAL				8991			10239			13581		
		TOTAL				24513			27115			31898		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000			
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:		P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZ2300)										
WBS Cost Elements: Fiscal Years		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 Revisn Avail	RFP Issue Date
1. Vehicle Upgrade														
FY 99		UDLP, York, PA		SS/FFP		USATACOM, Warren, MI		Nov-98	Jan-00	27	360			
FY 00		UDLP, York, PA		SS/FFP		USATACOM, Warren, MI		Mar-00	Feb-01	26	278			
FY 01		UDLP, York, PA		SS/FFP		USATACOM, Warren, MI		Nov-00	Jan-02	29	259			
2. MEP														
FY 00		SEI, Sanford, FL		SS/FFP		USATACOM, Warren, MI		Dec-99	Oct-00	27	76			
FY 01		SEI, Sanford, FL		SS/FFP		USATACOM, Warren, MI		Nov-00	Oct-01	29	77			
REMARKS:														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												BFVS SERIES (MOD) (GZ2400)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	684.0	113.6	58.6	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	1206.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	684.0	113.6	58.6	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	1206.7	
Initial Spares													
Total Proc Cost	684.0	113.6	58.6	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	1206.7	
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 5 ECPs which will correct deficiencies identified in Operation Desert Storm and include: Laser Range Finder, Position Navigation System, Equipment Restow Improvement, Combat Identification System, and Drivers Vision Enhancer. The A1 to A2 conversion effort increases the vehicle survivability and brings the vehicle up to the current A2 configuration, with the addition of the High Survivability Kit and the 600HP power pack. The A1 to A2 conversion effort is complete. Operational improvements are the Transmission Electronic Controller, 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 M2A2ODS to M3A2ODS conversion program will reconfigure M2A2ODS vehicles to the M3A2ODS configuration to allow fielding under the pure fleet concept in accordance with the Armored Systems Modernization Plan. Most of these modifications will be applied concurrently in "blocks" to reduce application cost and inconvenience to the unit. JUSTIFICATION: The programs in these P-Forms were initiated to meet requirements identified to correct deficiencies identified in Operation Desert Storm and to improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and mobility will occur if these modifications are delayed or reduced.													

Exhibit P-40M Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No.					P-1 Item Nomenclature			Date				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles					BFVS SERIES (MOD) (GZ2400)							
Program Elements for Code B Items			Code		Other Related Program Elements							
Description			Fiscal Years									
OSIP NO.	Classification		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
A1-A2 Conversion												
1-84-05-4038	Oper. Capability		381.9	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	404.2
A2 ODS Mods												
1-92-05-4404	Oper. Capability		149.8	18.4	2.1	1.0	7.5	21.3	17.3	0.0	0.0	217.3
Transmission Electronic Controller (TEC)												
1-90-05-4282	Oper. Capability		14.5	3.2	0.0	0.0	1.2	1.2	0.0	0.0	0.0	20.1
Vehicle Intercom System												
1-90-05-4284	Oper. Capability		13.1	1.4	0.0	0.0	1.3	1.4	0.0	0.0	0.0	17.2
DECA												
1-93-05-4441	Oper. Capability		17.4	1.9	0.0	0.0	0.8	0.6	0.0	0.0	0.0	20.8
HALON Replacement												
1-92-05-4422	Legisl. Compliance		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A2 ODS Applique												
1-98-05-4539	Oper. Capability		0.0	10.0	2.7	16.6	7.8	16.0	11.9	11.9	0.0	76.9
Battlefield Combat Identification System												
1-98-05-4546	Operational Capability		0.0	0.0	1.9	2.6	2.6	2.6	1.3	0.5	0.0	11.6
A2 High Payoff Improvements (No P3a Set)												
1-98-05-4550	Operational Capability		0.0	0.0	0.0	0.0	0.0	6.6	29.1	47.1	0.0	82.8
Armor tiles												
1-84-05-4038	Oper. Capability		72.1	16.7	24.6	0.0	0.0	0.0	0.0	0.0	0.0	113.5
M2A2ODS to M3A2ODS Conversion												
1-99-05-4564	Oper. Capability		0.0	0.0	0.0	17.1	18.0	0.0	0.0	0.0	0.0	35.0
Totals			648.8	74.0	31.3	37.1	39.2	49.7	59.7	59.5	0.0	999.4

INDIVIDUAL MODIFICATION												Date	February 2000				
MODIFICATION TITLE: A1-A2 Conversion 1-84-05-4038																	
MODELS OF SYSTEMS AFFECTED: M2A1 (IFV) / M3A1 (CFV)																	
DESCRIPTION / JUSTIFICATION:																	
The BFVS conversion effort converts the A1 configuration to an A2 configuration. The conversion effort includes: 1. High Survivability (HS) Kit which will enhance vehicle survivability through the application of alternate armor and selective use of crew compartment spill liners for increased protection against threat from frontal attack. The HS kit also contains other associated changes such as restowage, swim curtain, IFV firing ports, and M240 gun upright. 2. The 600HP power pack, which includes the 600 HP engine and the reliability improved 500-3 Transmission which eliminates the adverse impact of increased vehicle weight on vehicle performance and reliability, resulting from High Survivability changes.																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:												<u>PLANNED</u>		<u>ACCOMPLISHED</u>			
Preliminary Design Review:												NA					
Critical Design Review:												NA					
Contractor Test and Evaluation:												NA					
Development Test and Evaluation:												NA					
Initial Operational Test and Evaluation:												NA					
IPR Production Decision:												3Q89		3Q89			
												3Q89		3Q89			
Installation Schedule:																	
Pr Yr		FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs		1294	14	32													
Outputs		1283	11	14	32												
		FY 2004			FY 2005			FY 2006			FY 2007			Totals			
1		2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete
Inputs																	1340
Outputs																	1340
METHOD OF IMPLEMENTATION: Depot Conversion														ADMINISTRATIVE LEADTIME: 6 Months		PRODUCTION LEADTIME: 12 Months	
Contract Dates: FY 1999 N/A														FY 2000 N/A		FY 2001 N/A	
Delivery Date: FY 1999 N/A														FY 2000 N/A		FY 2001 N/A	

INDIVIDUAL MODIFICATION														February 2000					
MODIFICATION TITLE (Cont):														A1-A2 Conversion 1-84-05-4038		Date			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			
PROCUREMENT																			
Kit Quantity																			
Installation Kits																			
Installation Kits Nonrecurring																			
600 HP Engine	1358	47.5																1358	47.5
500-3 Transmission	1358	39.2																1358	39.2
High Survivability kits	1358	191.0																1358	191.0
Engineering Change Orders		1.6																	1.6
Training Equipment																			
Support Equipment		2.8																	2.8
Other																			
Interim Contractor Support			57	14.1														57	14.1
Pre-mod Depot Maintenance																			
Installation of Hardware																			
FY 1998 & Prior Eqpt -- Kits	1283	99.9	57	8.2														1340	108.1
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- Kits																			
FY 2001 Eqpt -- Kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
FY 2004 Eqpt -- kits																			
FY 2005 Eqpt -- kits																			
TC Equip-Kits																			
Total Installment	1283	99.9	57	8.2														1340	108.1
Total Procurement Cost		381.9		22.3															404.2

INDIVIDUAL MODIFICATION																																																																																																																			
MODIFICATION TITLE: A2 ODS Mods 1-92-05-4404										Date	February 2000																																																																																																								
MODELS OF SYSTEMS AFFECTED: M2A2/M3A2																																																																																																																			
DESCRIPTION / JUSTIFICATION:																																																																																																																			
Six vehicle improvements (ECP's) which will correct deficiencies identified in Operation Desert Storm. These increase vehicle lethality and survivability and situational awareness. Additionally, included in this effort are Armored Hatches to further improve vehicle survivability. a. Laser Range Finder: will give the BFVS a first burst on target capability and reduce the time required to acquire and kill a target. b. Position Navigation System: Global Positioning System (GPS) integrating hardware and a self calibrating digital compass. This will enable the Bradley commander to determine his exact location at all times and determine the heading and distance to any location. c. Equipment Restow Improvement: Improves the method of stowing internal and external equipment. d. Combat Identification System: Provides integration hardware for a passive system that will provide visual and thermal signatures detectable between ground to ground vehicles and from air to ground. e. Driver's Thermal Viewer: Increases the driver's ability to see through battlefield obscurants such as dust, fog and smoke during night and day. f. Missile Countermeasure Device: Provides additional protection against a variety of anti tank missiles.																																																																																																																			
<table border="0"> <tr> <td colspan="6">DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</td> <td colspan="6"> PLANNED 4Q93 2Q94 3Q94 4Q94 1Q95 2Q95 </td> </tr> <tr> <td colspan="6">Preliminary Design Review:</td> <td colspan="6">4Q93</td> </tr> <tr> <td colspan="6">Critical Design Review:</td> <td colspan="6">2Q94</td> </tr> <tr> <td colspan="6">Contractor Test and Evaluation:</td> <td colspan="6">3Q94</td> </tr> <tr> <td colspan="6">Development Test and Evaluation:</td> <td colspan="6">1Q95</td> </tr> <tr> <td colspan="6">Initial Operational Test and Evaluation:</td> <td colspan="6">1Q95</td> </tr> <tr> <td colspan="6">IPR Production Decision</td> <td colspan="6">2Q95</td> </tr> </table>												DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:						PLANNED 4Q93 2Q94 3Q94 4Q94 1Q95 2Q95						Preliminary Design Review:						4Q93						Critical Design Review:						2Q94						Contractor Test and Evaluation:						3Q94						Development Test and Evaluation:						1Q95						Initial Operational Test and Evaluation:						1Q95						IPR Production Decision						2Q95																									
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																		
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Totals	922	98	98	50	98	50	49	7	8	8	9	15	14	14	14	8	8	8	8	7																																																																																															
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Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	To																																																																																																	
Inputs	19	19	19	19																																																																																																															
Outputs	20	19	19	19																																																																																																															
Totals																																																																																																																			
METHOD OF IMPLEMENTATION: Contr/Depot/Field ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months Contract Dates: FY 1999 Dec 98 N/A FY 2000 N/A FY 2001 N/A Delivery Date: FY 1999 Dec 99 N/A FY 2000 N/A FY 2001 N/A																																																																																																																			

INDIVIDUAL MODIFICATION														Date		February 2000				
MODIFICATION TITLE (Cont):																				
A2 ODS Mods 1-92-05-4404																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	1320	136.2	137	10.1					56	6.3	57	9.6	20	4.3					1590	166.5
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring		2.0																		2.0
Engineering Change Orders		5.8		0.1																5.8
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Pre-mod Depot Maintenance											36	9.4	41	10.9					77	20.2
NOTE: Application quantities and costs reflect kits applied by field retrofit only. Costs for ODS application during AO-A2 remanufacture, BFIST conversion and A1-A2 conversion are reflected on their respective P-forms.																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	695	5.9	118	5.8															813	11.8
FY 1999 Eqpt -- Kits			50	2.4	43	2.1	20	1.0	24	1.2								137	6.6	
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits											32	1.6						32	1.6	
FY 2003 Eqpt -- kits											15	0.7	42	2.1				57	2.9	
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	695	5.9	168	8.2	43	2.1	20	1.0	24	1.2	47	2.3	42	2.1				1039	22.9	
Total Procurement Cost		149.8		18.4		2.1		1.0		7.5		21.3		17.3					217.3	

INDIVIDUAL MODIFICATION												Date	February 2000
MODIFICATION TITLE: Transmission Electronic Controller (TEC) 1-90-05-4282													
MODELS OF SYSTEMS AFFECTED: M2A2/M3A2													
DESCRIPTION / JUSTIFICATION:													
The Transmission Electronic Controller (TEC) replaces the hydromechanical transmission control with an electromechanical control. The TEC directly improves transmission maintainability and reliability. The control features of TEC will provide improved acceleration, fuel utilization and hot and cold performance, and better low speed maneuverability.													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:													
IPR Production Decision: 2Q94													
TDP Available: 2Q94													
Installation Schedule:													
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003			
Totals	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	483	105	104	56	50	49	7	8	8	9	15	14	8
Outputs	384	99	105	104	56	50	49	7	8	8	9	14	8
FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		Totals	
1	2	3	4	1	2	3	4	1	2	3	4	Complete	
19	19	19	19										1157
20	19	19	19										1157
METHOD OF IMPLEMENTATION: Contr/Dpot/Field ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months													
Contract Dates: FY 1999 Jan 99 FY 2000 N/A FY 2001 N/A													
Delivery Date: FY 1999 Aug 99 FY 2000 N/A FY 2001 N/A													

INDIVIDUAL MODIFICATION														Date		February 2000			
Transmission Electronic Controller (TEC) 1-90-05-4282																			
MODIFICATION TITLE (Cont):																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RT&E																			
PROCUREMENT																			
Kit Quantity	870	14.5	175	3.2					55	1.2	57	1.2						1157	20.1
Installation Kits																			
Installation Kits, Nonrecurring Equipment																			
Equipment, Nonrecurring																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
NOTE: Application is budgeted as part of the A2 ODS program																			
Installation of Hardware																			
FY 1998 & Prior Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- Kits																			
FY 2001 Eqpt -- Kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
FY 2004 Eqpt -- kits																			
FY 2005 Eqpt -- kits																			
TC Equip-Kits																			
Total Installment																			
Total Procurement Cost	14.5		3.2						1.2		1.2							20.1	

INDIVIDUAL MODIFICATION																																																																																																																						
														Date																																																																																																								
														February 2000																																																																																																								
MODIFICATION TITLE: Vehicle Intercom System 1-90-05-4284																																																																																																																						
MODELS OF SYSTEMS AFFECTED: A2 ODS M2/M3																																																																																																																						
DESCRIPTION / JUSTIFICATION: The VIS system is a replacement for the AN/VIC-1 intercom system. It is a digital intercom system which provides internal communications as well as access to the vehicle radios. This is a non-developmental item to be applied to the A2 ODS vehicles.																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Preliminary Design Review: NA Critical Design Review: NA Contractor Test and Evaluation: NA Development Test and Evaluation: NA Initial Operational Test and Evaluation: 2Q95 IPR Production Decision: 3Q95 TDP Available: NA PLANNED ACCOMPLISHED NA NA NA NA 2Q95 3Q95 NA																																																																																																																						
Installation Schedule: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>505</td><td>98</td><td>98</td><td>50</td> <td>50</td><td>49</td><td>7</td><td>8</td> <td>8</td><td>8</td><td>9</td><td>15</td> <td>14</td><td>14</td><td>14</td><td>8</td> <td>8</td><td>8</td><td>7</td><td>20</td> </tr> <tr> <td>Inputs</td> <td>406</td><td>99</td><td>98</td><td>98</td> <td>50</td><td>50</td><td>49</td><td>7</td> <td>8</td><td>8</td><td>8</td><td>9</td> <td>14</td><td>14</td><td>14</td><td>14</td> <td>8</td><td>8</td><td>8</td><td>7</td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>															Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	505	98	98	50	50	49	7	8	8	8	9	15	14	14	14	8	8	8	7	20	Inputs	406	99	98	98	50	50	49	7	8	8	8	9	14	14	14	14	8	8	8	7	Outputs																				
Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																																		
Totals	505	98	98	50	50	49	7	8	8	8	9	15	14	14	14	8	8	8	7	20																																																																																																		
Inputs	406	99	98	98	50	50	49	7	8	8	8	9	14	14	14	14	8	8	8	7																																																																																																		
Outputs																																																																																																																						
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	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																																						
Inputs	19	19	19														1153																																																																																																					
Outputs	20	19	19	19													1153																																																																																																					
METHOD OF IMPLEMENTATION: contractor/Depot <table style="width: 100%;"> <tr> <td style="width: 25%;">Contract Dates:</td> <td style="width: 25%;">FY 1999</td> <td style="width: 25%;">Mar 99</td> <td style="width: 25%;">N/A</td> </tr> <tr> <td>Delivery Date:</td> <td>FY 1999</td> <td>Sep 99</td> <td>N/A</td> </tr> </table>															Contract Dates:	FY 1999	Mar 99	N/A	Delivery Date:	FY 1999	Sep 99	N/A																																																																																																
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ADMINISTRATIVE LEADTIME:	FY 2000	N/A	6 Months																																																																																																																			
PRODUCTION LEADTIME:	FY 2001	N/A	6 Months																																																																																																																			

INDIVIDUAL MODIFICATION														February 2000						
Vehicle Intercom System 1-90-05-4284																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	964	13.1	77	1.4					55	1.3	57	1.4							1153	17.2
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
APPLICATION SCHEDULED AND BUDGETED AS PART OF A20DS PROGRAM																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation																				
Total Procurement Cost	13.1		1.4						1.3		1.4								17.2	

INDIVIDUAL MODIFICATION												
Date February 2000												
MODIFICATION TITLE (Cont): DECA 1-93-05-4441												
FINANCIAL PLAN: (\$ in Millions)												
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E												
PROCUREMENT												
Kit Quantity	776	17.4	263	1.9					32	0.8	24	0.6
Installation Kits												
Installation Kits, Nonrecurring Equipment												
Equipment, Nonrecurring												
Engineering Change Orders												
Data												
Training Equipment												
Support Equipment												
Other												
Interim Contractor Support												
APPLICATION BUDGETED AS PART OF A1-A2 CONVERSION AND A2 ODS APPLICATION												
Installation of Hardware												
FY 1998 & Prior Eqpt -- Kits												
FY 1999 Eqpt -- Kits												
FY 2000 Eqpt -- Kits												
FY 2001 Eqpt -- Kits												
FY 2002 Eqpt -- kits												
FY 2003 Eqpt -- kits												
FY 2004 Eqpt -- kits												
FY 2005 Eqpt -- kits												
TC Equip-Kits												
Total Installation												
Total Procurement Cost	17.4		1.9						0.8		0.6	
												20.8

INDIVIDUAL MODIFICATION																																																																																																																						
MODIFICATION TITLE: A2 ODS Applique 1-98-05-4539										Date																																																																																																												
February 2000																																																																																																																						
MODELS OF SYSTEMS AFFECTED: M2A2ODS, M6A1 Linebacker, M7A1 BFIST																																																																																																																						
DESCRIPTION / JUSTIFICATION: ODS Vehicle Applique: 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:										PLANNED 7/95 1/96 9/98 09/00 03/01																																																																																																												
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:										ACTUAL 7/95 1/96 8/98																																																																																																												
Preliminary Design Review: Critical Design Review: LUT: IOT&E: MS III																																																																																																																						
Installation Schedule:																																																																																																																						
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																																		
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Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	To	Complete																																																																																																				
Inputs	42	42	54	54	54	54	44	44	43	43	40	39	39	39	39	39																																																																																																						
Outputs	42	42	54	54	54	54	44	44	43	43	40	39	39	39	39	39																																																																																																						
Totals																	1102	1102																																																																																																				
METHOD OF IMPLEMENTATION: Contractor Applied																																																																																																																						
Contract Dates: FY 1999 Jan 99 FY 2000 Jun 00 FY 2001 Jun 01 FY 2002 Jun 02																																																																																																																						
Delivery Date: FY 1999 Jun 00 FY 2000 Jun 01 FY 2001 Jun 01 FY 2002 Jun 02																																																																																																																						
PRODUCTION LEADTIME: 12 Months																																																																																																																						

INDIVIDUAL MODIFICATION																		Date		February 2000					
MODIFICATION TITLE (Cont):																		A2 ODS Applique 1-98-05-4539							
FINANCIAL PLAN: (\$ in Millions)																									
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL						
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$					
RDT&E																									
PROCUREMENT																									
ODS Installation B-Kits					126	2.7	261	5.7	159	3.5	225	5.1	174	4.0	157	3.7			1102	24.7					
ODS Installation A-Kits			50	5.6			193	10.9	93	4.3	186	10.9	135	7.9	130	8.2			787	47.8					
ODS Nonrecurring				3.1																3.1					
IOTE Refurbishment				0.9																0.9					
Data				0.4																0.4					
Support Equipment																									
Other																									
Interim Contractor Support																									
NOTE: Application costs are included in procurement unit cost																									
Installation of Hardware																									
FY 1998 & Prior Eqpt -- Kits																									
FY 1999 Eqpt -- Kits																									
FY 2000 Eqpt -- Kits																									
FY 2001 Eqpt -- Kits																									
FY 2002 Eqpt -- kits																									
FY 2003 Eqpt -- kits																									
FY 2004 Eqpt -- kits																									
FY 2005 Eqpt -- kits																									
TC Equip-Kits																									
Total Installment																									
Total Procurement Cost				10.0		2.7		16.6		7.8		16.0		11.9		11.9				76.9					

INDIVIDUAL MODIFICATION																																																													
MODIFICATION TITLE: Battlefield Combat Identification System 1-98-05-4546											Date																																																		
MODELS OF SYSTEMS AFFECTED: M2A2ODS																																																													
DESCRIPTION / JUSTIFICATION:																																																													
The Battlefield Combat Identification System (BCIS) is a millimeter wave, question and answer system that will provide positive identification of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. The BCIS is a designated Army Horizontal Technology Integration (HTI) initiative.																																																													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																													
MSII 4Q93 CDR 2Q94 PPQT/LUT 1Q95 TF XXI Demo 3Q97 NATO Demo 4Q97 LRIP IPR 2Q99																																																													
Installation Schedule:																																																													
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Pr Yr	FY 1999		FY 2000		FY 2001		FY 2002		FY 2003																																																				
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	FY 2004		FY 2005		FY 2006		FY 2007		To	Totals																																																			
1	2	3	4	1	2	3	4	1	2	3	4																																																		
Inputs	10	10	10	5	5	5	4	4			178																																																		
Outputs	10	10	10	10	5	5	5	4			178																																																		
METHOD OF IMPLEMENTATION: Cntr/Depot Contract Dates: FY 1999 N/A Delivery Date: FY 1999 N/A ADMINISTRATIVE LEADTIME: FY 2000 Jan 00 PRODUCTION LEADTIME: FY 2001 Jan 01 3 Months 12 Months																																																													

INDIVIDUAL MODIFICATION														Date	February 2000					
MODIFICATION TITLE (Cont):														Battlefield Combat Identification System 1-98-05-4546						
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
BCIS Kits					30	1.9	40	2.6	40	2.6	40	2.6	20	1.3	8	0.5			178	11.6
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
NOTE: Application costs are included in procurement unit cost																				
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FY 1998 & Prior Eqpt -- Kits																				
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FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation																				
Total Procurement Cost					1.9		2.6		2.6		2.6		1.3		0.5				11.6	

INDIVIDUAL MODIFICATION																																																																																																																																						
MODIFICATION TITLE: Armor tiles 1-84-05-4038														Date																																																																																																																								
MODELS OF SYSTEMS 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 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. The FY99 budget includes \$700 thousand of additional funds separately appropriated for Armor Tile.																																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;"><u>PLANNED</u></th> <th style="width: 10%; text-align: center;"><u>ACCOMPLISHED</u></th> <th colspan="12"></th> </tr> <tr> <td></td> <td style="text-align: center;">3Q90</td> <td style="text-align: center;">3Q90</td> <td colspan="12"></td> </tr> </thead> <tbody> <tr> <td>Critical Design Review:</td> <td style="text-align: center;">N/A</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>Contractor Test and Evaluation:</td> <td style="text-align: center;">N/A</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>Development Test and Evaluation:</td> <td style="text-align: center;">N/A</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>Initial Operational Test and Evaluation:</td> <td style="text-align: center;">2Q92</td> <td style="text-align: center;">2Q93</td> <td colspan="12"></td> </tr> <tr> <td>IPR Production Decision:</td> <td style="text-align: center;">N/A</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>TDP Available</td> <td></td> <td></td> <td colspan="12"></td> </tr> </tbody> </table>																<u>PLANNED</u>	<u>ACCOMPLISHED</u>														3Q90	3Q90													Critical Design Review:	N/A														Contractor Test and Evaluation:	N/A														Development Test and Evaluation:	N/A														Initial Operational Test and Evaluation:	2Q92	2Q93													IPR Production Decision:	N/A														TDP Available														
	<u>PLANNED</u>	<u>ACCOMPLISHED</u>																																																																																																																																				
	3Q90	3Q90																																																																																																																																				
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Development Test and Evaluation:	N/A																																																																																																																																					
Initial Operational Test and Evaluation:	2Q92	2Q93																																																																																																																																				
IPR Production Decision:	N/A																																																																																																																																					
TDP Available																																																																																																																																						
Installation Schedule: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Pr Yr</th> <th colspan="4" style="width: 20%;">FY 1999</th> <th colspan="4" style="width: 20%;">FY 2000</th> <th colspan="4" style="width: 20%;">FY 2001</th> <th colspan="4" style="width: 20%;">FY 2002</th> <th colspan="4" style="width: 20%;">FY 2003</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>															Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				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 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																																					
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Totals	FY 2004				FY 2005				FY 2006				FY 2007				To Complete																																																																																																																					
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Outputs																																																																																																																																						
METHOD OF IMPLEMENTATION: Troop Installed Contract Dates: FY 1999 Feb 99 ADMINISTRATIVE LEADTIME: FY 2000 PRODUCTION LEADTIME: FY 2001 6 Months Delivery Date: FY 1999 FY 2000 FY 2001																																																																																																																																						

INDIVIDUAL MODIFICATION														February 2000						
MODIFICATION TITLE (Cont):														Date						
Armor tiles 1-84-05-4038																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		4.0																		4.0
PROCUREMENT																				
Kit Quantity	246	56.5	56	14.0	70	19.0													372	89.5
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring Engineering Change Orders		0.5																		0.5
Data																				
Training Equipment																				
Support Equipment																				
Other		15.1		2.7		5.6														23.4
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost	72.1		16.7		24.6															113.5

INDIVIDUAL MODIFICATION												
M2A2ODS to M3A2ODS Conversion 1-99-05-4564												
MODIFICATION TITLE (Cont):												
FINANCIAL PLAN: (\$ in Millions)												
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E												
PROCUREMENT												
Kit Quantity							69	17.1	62	18.0		
Installation Kits												
Installation Kits, Nonrecurring Equipment												
Equipment, Nonrecurring												
Engineering Change Orders												
Data												
Training Equipment												
Support Equipment												
Other												
Interim Contractor Support												
NOTE: Application costs are included in procurement unit cost												
Installation of Hardware												
FY 1998 & Prior Eqpt -- Kits												
FY 1999 Eqpt -- Kits												
FY 2000 Eqpt -- Kits												
FY 2001 Eqpt -- Kits												
FY 2002 Eqpt -- kits												
FY 2003 Eqpt -- kits												
FY 2004 Eqpt -- kits												
FY 2005 Eqpt -- kits												
TC Equip-Kits												
Total Installment								17.1		18.0		
Total Procurement Cost												35.0

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 2000
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 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 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1223.7	100.4	74.0	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1487.4
Less PY Adv Proc	16.3											16.3
Plus CY Adv Proc												
Net Proc (P-1)	1207.4	100.4	74.0	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1471.1
Initial Spares	5.9	6.4	0.7									12.9
Total Proc Cost	1213.2	106.8	74.6	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1484.0
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.

COOPERATIVE AGREEMENTS:
The Government of the United States of America, as represented by the Department of the Army (DA), and the Government of Israel (GOI), as represented by the Ministry of Defense (MOD), agreed to cooperate on a joint development project to improve the M109 Series 155MM Self-Propelled Howitzer in November 1985. This program incorporated already developed items, together with items which were developed under contract, into prototype M109s. DA and MOD supplied their own M109s for prototype work. GOI funding for its share of the program was \$30.7 million over Fiscal Years (FY) 1986-1990. The US Howitzer is currently in the full scale production phase and has been named the M109A6 Paladin. The US/Israeli Joint Development Agreement has expired effective with the Paladin Milestone III, Full Scale Production Decision. The system developer, BMY, a Division of Harsco Corporation, was awarded a full scale engineering development contract in October 1985, and a low rate production contract in September 1990. In April 1993, FMC Corporation (now known as United Defense, Limited Partnership, Paladin Production Division) won a competitive multiyear procurement contract for full scale production of remaining Paladin requirements during FY1993-1998 programs. A FY00 contract is expected in May 2000 for a limited quantity of systems.

Exhibit P-40M Budget Item Justification Sheet										Date	
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 2000							
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 1 / Tracked Combat Vehicles		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	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
1-81-05-1002	Howitzer Improvement Program Unclassified	1,378.3	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1,467.7
1-96-05-1003	Chlorofluorocarbon (CFC Elimination) Unclassified	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Totals		1,381.7	11.2	26.8	8.1	5.3	13.9	20.1	4.0	0.0	1,471.1

INDIVIDUAL MODIFICATION																																																																																																																																																																											
										Date	February 2000																																																																																																																																																																
MODIFICATION TITLE: Howitzer Improvement Program 1-81-05-1002 MODELS OF SYSTEMS AFFECTED: Howitzer, MED SP 155MM M109 Ser (MOD)																																																																																																																																																																											
DESCRIPTION / JUSTIFICATION: The M109A6 Paladin, approved for full scale production, has been 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 involves a combined effort between Letterkenny Army Depot and the contractor. M109A2/A3 Howitzers from CONUS and OCONUS field units are being shipped to Letterkenny Army Depot. Letterkenny removes traverse mechanism, disassembles the howitzer, reconditions turret components to be reset in the new turret, and overhauls/modifies the chassis to the Paladin configuration. The reconditioned turret components, and the overhauled/modified chassis with the new M284 Cannon and M182 Gun Mount manufactured by Watervliet and Rock Island Arsenal, respectively, are 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 is expected to be awarded in May 2000 for 7 additional systems.																																																																																																																																																																											
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) into 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 multi-year contract ahead of schedule. Deliveries from the FY00 contract are expected to be completed 2nd Qtr FY02.																																																																																																																																																																											
Installation Schedule: <table border="1"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>Inputs</td> <td>950</td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td>845</td><td>45</td><td>37</td><td>23</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td>7</td> <td></td><td></td><td></td><td>2</td> <td></td><td></td><td></td><td>5</td> </tr> </tbody> </table>												Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs	950																				Outputs	845	45	37	23								7				2				5																																																								
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	FY 2004				FY 2005				FY 2006				FY 2007				To Complete																																																																																																																																																										
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Totals																																																																																																																																																																											
METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 24 Months PRODUCTION LEADTIME: 24 Months Contract Dates: FY 1999 Enter Date FY 2000 Enter Date FY 2001 Enter Date Delivery Date: FY 1999 Enter Date FY 2000 Enter Date FY 2001 Enter Date																																																																																																																																																																											

INDIVIDUAL MODIFICATION																		Date	February 2000
MODIFICATION TITLE (Cont):																		Howitzer Improvement Program 1-81-05-1002	
FINANCIAL PLAN: (\$ in Millions)																			
	FY 1998 Qty	\$	FY 1999 Qty	\$	FY 2000 Qty	\$	FY 2001 Qty	\$	FY 2002 Qty	\$	FY 2003 Qty	\$	FY 2004 Qty	\$	FY 2005 Qty	\$	TC Qty	TOTAL Qty	\$
RDT&E		149.4						2.5	4.6									957	156.5
PROCUREMENT	950				7														
Kit Quantity																			
Equipment		772.6		1.7		11.1		5.4	0.1		0.0								790.9
Equipment, Nonrecurring		244.1		1.2		0.0													245.3
Engineering Change Orders		115.0		0.1		1.5													116.6
Matrix Personnel Support		86.6		3.4		5.1													95.0
Data		13.1		0.3															13.4
Training Equipment		14.1																	14.1
Vehicular Intercom System		10.2				1.1													11.3
Other		5.1				0.4													5.5
Project Mgmt Admin		18.0		0.7		4.1		0.6	0.0										23.4
Fielding		25.7		3.9		1.0		1.9											32.5
Battlefield Combat ID System						0.0								4.2					0.0
MACS Stowage and Handling								0.0	0.2		2.0		0.2	0.5					6.2
Battery Guard System											0.2		6.0	11.9					0.2
Laser Ignition System											5.9		9.8	24.7					6.0
Fire Control Upgrade								0.1	5.0		5.8				4.0				9.8
Installation of Hardware																			
FY 1998 & Prior Eqpt -- Kits	950	73.8															950	73.8	
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- Kits					7	2.5											7	2.5	
FY 2001 Eqpt -- Kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
FY 2004 Eqpt -- kits																			
FY 2005 Eqpt -- kits																			
TC Equip-Kits																			
Total Installment	950	73.8			7	2.5											957	76.3	
Total Procurement Cost		1378.3		11.2		26.8		8.1	5.3		13.9		20.1	4.0				1467.7	

INDIVIDUAL MODIFICATION															Date	February 2000			
MODIFICATION TITLE: Chlorofluorocarbon (CFC Elimination) 1-96-05-1003																			
MODELS OF SYSTEMS AFFECTED: M109A6 Paladin Howitzer																			
DESCRIPTION / JUSTIFICATION:																			
References: DOD Directive 6050.0; Policy Letter 200.90-1; 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 Vendor Selected - 1QFY98 Joint Government/Contractor Test and Evaluation - 3QFY98 and ongoing IPR Production Decision/Contract Modification - 2QFY99 TDP Available - 2QFY99																			
Installation Schedule:																			
Inputs Outputs	Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
				34	223	225	225	208	35										
Inputs Outputs				34	188	204	165	186	130										
Inputs Outputs																			
METHOD OF IMPLEMENTATION: Field Retrofit Contract Dates: FY 1999 Enter Date FY 1999 Enter Date Delivery Date: FY 1999 Enter Date ADMINISTRATIVE LEADTIME: 24 Months FY 2000 Enter Date FY 2000 Enter Date PRODUCTION LEADTIME: 24 Months FY 2001 Enter Date FY 2001 Enter Date																			
Totals 950 950																			

INDIVIDUAL MODIFICATION																		February 2000		
MODIFICATION TITLE (Cont):																		Date		
Chlorofluorocarbon (CFC Elimination) 1-96-05-1003																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		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
Project Management																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	950	1.3																	950	1.3
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	950	1.3																	950	1.3
Total Procurement Cost		3.4																		3.4

Exhibit P-40, Budget Item Justification Sheet													Date:	February 2000
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHS / 1 / Tracked Combat Vehicles													FAASV PIP TO FLEET (GA8010)	
Program Elements for Code B Items:													Other Related Program Elements:	
Code:													A	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog		
Proc Qty														
Gross Cost	73.0	23.5	1.8	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0.0	130.6		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	73.0	23.5	1.8	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0.0	130.6		
Initial Spares														
Total Proc Cost	73.0	23.5	1.8	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0.0	130.6		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:
Funds the procurement of approved modifications to the M992 and M992A1 Field Artillery Ammunition Support Vehicle.

Exhibit P-40M Budget Item Justification Sheet												Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature										FAASV PIP TO FLEET (GA8010)	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 1 / Tracked Combat Vehicles													
Program Elements for Code B Items		Code		Other Related Program Elements									
		A											
Description		Fiscal Years										Total	
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC			
FAASV Materiel Change (A2 Conversion)													
1-93-05-4457	Unclassified	95.4	2.8	0.2	0.0	18.4	2.1	3.9	0.1	0.0	122.9		
FAASV Halon Replacement													
1-94-05-4477	Unclassified	2.8	0.3	0.0	0.0	0.0	0.0	4.5	0.0	0.0	7.6		
Totals													
		98.2	3.1	0.2	0.0	18.4	2.1	8.4	0.1	0.0	130.6		

INDIVIDUAL MODIFICATION																																																																																																																																			
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MODIFICATION TITLE: FAASV Materiel Change (A2 Conversion) 1-93-05-4457																																																																																																																																			
MODELS OF SYSTEMS AFFECTED: FAASV M992A0 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. Funding against Depot Maintenance Pre-Modification in FY99 pays the Inspect and Repair Only As Necessary (IROAN) upgrade effort for the completion of the European Conversion Program.																																																																																																																																			
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: <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="5">FY 1999</th> <th colspan="5">FY 2000</th> <th colspan="5">FY 2001</th> <th colspan="5">FY 2002</th> <th colspan="5">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td>757</td><td>18</td><td>14</td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td>732</td><td>28</td><td>24</td><td>5</td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>												Pr Yr	FY 1999					FY 2000					FY 2001					FY 2002					FY 2003					1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	Inputs	757	18	14																							Outputs	732	28	24	5																																						
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INDIVIDUAL MODIFICATION																		February 2000		
FAASV Materiel Change (A2 Conversion) 1-93-05-4457																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	789																		789	
PROCUREMENT																				
Kit Quantity		45.1																		45.1
Installation Kits		10.3																		10.3
Engineering Change Orders		1.3																		3.1
Project Management Admin		0.3		1.7		0.1														0.3
Testing		0.3																		6.2
Fielding Support		5.9		0.3																0.8
Depot Maint Pre Modification				0.8																18.2
Auxiliary Power Unit									18.2											0.1
Battlefield Combat ID System						0.1			0.1											0.5
Defense Adv GPS Receiver									0.2											0.5
Battery Guard System									0.2											5.3
MACS Stowage and Handling																				7.1
Vehicular Intercom System		7.1																		
Installation of Hardware	789	25.5																	789	25.5
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
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FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation	789	25.5																	789	25.5
Total Procurement Cost		95.4		2.8		0.2			18.4			2.1		3.9		0.1				122.9

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MODELS OF SYSTEMS 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.																																																																																																																																																																																																														
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INDIVIDUAL MODIFICATION																		February 2000	
FAASV Halon Replacement 1-94-05-4477																			
MODIFICATION TITLE (Cont):																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
927																		927	
	1.0																		1.0
	0.2																		0.2
	0.5																		0.5
	3.5																		3.5
													</						

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomendature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	52	24	10	16		24	21		22	24		193	
Gross Cost	119.5	55.5	32.0	53.6		68.4	67.8		73.1	74.2		544.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	119.5	55.5	32.0	53.6		68.4	67.8		73.1	74.2		544.1	
Initial Spares	1.5	2.0				2.8	2.8		2.9	3.0		15.1	
Total Proc Cost	121.0	57.5	32.0	53.6		71.2	70.6		76.0	77.2		559.2	
Flyaway UIC													
Wpn Sys Proc UIC	2.3	2.3	3.2	3.3		2.8	3.2		3.3	3.1		2.8	

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

JUSTIFICATION: The FY01 funding will be used to produce 24 M88A2 HERCULES utilizing the existing M88A1 chassis as the base vehicle and increasing the horsepower, braking/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.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)		Weapon System Type:		Date: February 2000			
Cost Elements		FY 98		FY 99		FY 00		FY 01			
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
1.	Vehicle Manufacturing - Contractor				30648	16	1916		47936	24	1997
2.	Vehicle Manufacturing - GFE				2098	*16	VAR		3002	*24	VAR
3.	Contractor Engineering				4402				3269		
4.	Engineering Change Orders								1460		
5.	Project Management - Core				3036				1665		
6.	Project Management - OGA				2203				1167		
7.	Transportation				45				59		
8.	Fielding				2562				1136		
9.	Testing				345				751		
10.	Depot Maintenance - Premodification				1007				2092		
11.	Fleet Retrofit (Block I & II ECP's)				5342						
12.	Track and Cleat ECP				1900				5848		
13.	Depot Maintenance Work Requirements				53588				68385		
TOTAL											

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000				
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		Weapon System Type:		P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570)											
WBS Cost Elements: Fiscal Years		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 Revm Avail	RFP Issue Date
1. Vehicle Manufacturing - Contractor FY 99		UDLP (1)		SS-FFP		TACOM		Nov-98 {2}		Feb-00	16	1916	YES		Sep 98
FY 01		UDLP (1)		SS-FFP		TACOM		Nov-00 {3}		Feb-02	24	1997	YES		Sep 00
2. Vehicle Manufacturing - GFE FY 99		Various		Reqn/PO		Various		Various			16	VAR	YES		
FY 01		Various		Reqn/PO		Various		Various			24	VAR	YES		
REMARKS: (1) UDLP - United Defense Limited Partnership (2) A contract was awarded November 1998 for Long Lead Material to accelerate the FY99 deliveries and mitigate a production break. Production contract was awarded March 1999. (3) A contract will be awarded November 2000 for Long Lead Material to accelerate the FY01 followed by a production contract award February 2001.															

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHLS / 1 / Tracked Combat Vehicles												BREACHER SYSTEM (MOD) (GZ3200)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: B													
0604649A													
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	19.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	19.5	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	19.5	
Flyaway U/C													
Wpn Sys Proc U/C													

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

JUSTIFICATION: During Operation Desert Storm, it became evident that the Army did not have one vehicle capable of performing an in-stride, complex linear obstacle breach. The Grizzly was to provide a critical resource for executing in-stride breaches, supporting the Force XXI maneuver commander's goals of information and maneuver dominance on the battlefield. The Grizzly, a single, survivable breach platform, gives the Combat Engineer a capability that does not currently exist in today's complex obstacle breaching operations. All existing counterobstacle and countermine systems are single purpose only, and lack the mobility, protection and agility of the current maneuver force. The Grizzly possesses a complex obstacle reducing capability, with mobility, protection, and agility comparable to the M-1 Abrams Tank.

The Grizzly program has been terminated. The decision to terminate the program was based on an assessment of affordability and acceptance of operational risk against higher Army transformation priorities.

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			P-1 Line Item Nomenclature: BREACHER SYSTEM (MOD) (GZ3200)			Weapon System Type:			Date: February 2000		
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
PROCUREMENT OF WPNS & TRKD CMVT VEHS / 1 / Tracked Combat Vehicles			HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)									
Program Elements for Code B Items:			Other Related Program Elements:									
64649			Code: B									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	2	6	6	6								20
Gross Cost	14.6	51.4	40.4	50.0	81.9							238.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.6	51.4	40.4	50.0	81.9							238.3
Initial Spares			0.9	0.9	1.3							3.1
Total Proc Cost	14.6	51.4	41.3	50.8	83.2	0.0	0.0	0.0	0.0	0.0	0.0	241.3
Flyaway U/C												
Wpn Sys Proc U/C	7.3	8.6	6.7	8.3								7.8
DESCRIPTION: The Wolverine (Heavy Assault Bridge) is a 26 meter (79 feet) Military Load Class 70 bridge transported on a modified M1A2 System Enhancement Package (SEP) Abrams Tank chassis. The bridge is capable of spanning 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 is operated by a crew of two soldiers and will be employed by Combat Engineer units in both offensive and defensive combined arms operations. Its mission is to provide gap crossing capability for heavy maneuver forces. It will support the Abrams Tank System and the Bradley Fighting Vehicle and is compatible with these systems in mobility and survivability. JUSTIFICATION: Operation Desert Storm illustrated that current Army bridging systems were lacking the mobility of the heavy maneuver force, gap spanning capability and required increased load capacity. The Wolverine replaces the Armored Vehicle Launched Bridge (AVLB) providing increased worldwide gap crossing capabilities, increased load capacity to support Military Load Class 70 vehicles and improved mobility, survivability, and logistics supportability. The Wolverine ensures the Brigade Combat Team's freedom of maneuver. The Wolverine program has been terminated. The decision to terminate the program was based on an assessment of affordability and acceptance of operational risk against higher Army transformation priorities.												

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			P-1 Line Item Nomenclature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250)			Weapon System Type:			Date: February 2000		
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Vehicle Manufacturing - Contractor						24218	6	4036						
2. Vehicle Manufacturing - ANAD						782	6	130						
3. Vehicle Manufacturing - GFE						3351	6	559						
4. Contract Engineering						18507								
5. Engineering Change Orders														
6. Project Mgmt Admin - Core						1134								
7. Project Mgmt Admin - OGA						1678								
8. New Equipment Training														
9. Total Package Fielding														
10. Transportation						308								
11. Modifications														
12. Program Closeout TBD											81901			
TOTAL						49978					81901			
FY00 program is being reassessed in light of the Army's transformation.														

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked		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 \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
1. Vehicle Manufacturing - Contractor											
FY 99	General Dynamics Land Systems Lima, Ohio	SS-FFP M2 (2)	TACOM	Dec-98	May-00	6	4036	YES		Aug 97	
2. Vehicle Manufacturing - ANAD											
FY 99	Anniston Army Depot Anniston, Alabama					6	130				
3. Vehicle Manufacturing - GFE											
FY 99	Government Furnished Equipment- Various					6	559				
REMARKS: FY00 program is being assessed in light of the Army's transformation.											

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nonendurance:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles											ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000)	
Program Elements for Code B Items:											Other Related Program Elements:	
Code: A												
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	146.2	0.0	0.0	1.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	150.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	146.2	0.0	0.0	1.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	150.3
Initial Spares												
Total Proc Cost	146.2	0.0	0.0	1.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	150.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Armored Vehicle Launched Bridge (AVLB) is the current authorized standard assault bridge supporting heavy forces. AVLBS are primarily assigned to Combat Engineer and Training Units, and War Reserve sites. The AVLB is rapidly becoming unsupportable and not in a common configuration.

JUSTIFICATION:

AVLB COMMON CHASSI MOD: To complete the application of 7 each Modification Work Orders (MWOs), 87 vehicles (18% of the Active Component and high priority War Reserve units) need one or more modifications. The Armored Top Loading Air Cleaner and Air Induction System Improvements (Clean Air) will improve the reliability and extend engine life. The AN/VVS-2 Driver's Night Viewer (DNV) enhances tactical night operations. The Smoke Grenade Launcher allows the AVLB to maneuver under cover of obscuring smoke in a tactical environment. The new vision cupola and security locking device improves closed hatch vision and vehicle security. The engine smoke generating system provides a second source of obscuring smoke in a tactical environment. These vehicle modifications are required on AVLBS to bring the vehicles up to the current supportable configuration.

Exhibit P-40M Budget Item Justification Sheet										
Appropriation / Budget Activity/Serial No.				Date		February 2000				
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 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	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
AVLB Block Mod (No P3a Set)										
1-97-05-4531	Oper Capability	146.2	1.0	1.2	1.7	0.0	0.0	0.0	0.0	150.1
Battlefield Combat Identification Systems (No P3a Set)										
0-00-00-0000	Oper Capability	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Totals		146.2	1.0	1.4	1.7	0.0	0.0	0.0	0.0	150.3

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 2000
PROCUREMENT OF WPNS & TRKD CMBT VEHS / /												P-1 Item Nonendurance:
ARMORED VEHICLE LAUNCH BRIDGE SLEP (GZ2050)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	15.3	14.9	69.5	73.0	62.8	0.0	235.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	15.3	14.9	69.5	73.0	62.8	0.0	235.5
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	15.3	14.9	69.5	73.0	62.8	0.0	235.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Service Life Extension Program (SLEP) applies upgrades to the Armored Vehicle Launch Bridge (AVLB) hydraulic, electrical and suspension chassis systems. It also upgrades the bridge from Military Load Class (MLC) 60 to MLC 70. The MLC 70 bridge is required to safely cross the current combat fleet weighing between 60 and 70 tons. The AVLB SLEP upgrades and updates the obsolete 1950's technology and eliminates associated supply and obsolescence issues. It improves reliability and logistics supportability by incorporating current proven technology and commercial parts. This SLEP is fundamental to improve AVLB operational readiness rates, control fleet Operations and Support (O&S) costs, and insure that AVLB remains a relevant part of the Force XXI.

JUSTIFICATION: Termination of the M104 Wolverine Heavy Assault Bridge leaves the 36 year old AVLBs as the Army's only and highest priority assault bridging system. The AVLB, which has never had a major upgrade, will be the Army's After Next first line assault bridging system. This SLEP extends the service life of the AVLB by making major subsystems supportable for the next 20 years of service. It also provides the capability for MLC 70 combat vehicles (Abrams Tanks and HERCULES) to safely cross at full span. The hydraulic and electrical upgrade is expected to reduce future O&S costs by 50 percent. The current 85 percent AVLB readiness rate is expected to be improved to an average of 90 percent.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / /		P-1 Line Item Nomenclature: ARMORED VEHICLE LAUNCH BRIDGE SLEP (GZ3050)		Weapon System Type:		Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Chassis SLEP - Nonrecurring Bridge Upgrade System Technical Support - Contractor Technical Support - Government																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF WPNS & TRKD CMBT VEHS / /				ARMORED VEHICLE LAUNCH BRIDGE SLEP (GZ3050)							
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 Revis Avail	RFP Issue Date	
Fiscal Years											
HARDWARE FY01: Chassis FY01: Bridge Upgrade	TBS TBS	C/FP C/FP	TACOM TACOM	Jan-01 Jan-01	Nov-01 Nov-01	2 37	2731 222	YES YES	Jun-02 Jun-02	Oct 00 Oct 00	
REMARKS: We will award two units in FY01 to be used for testing, functional evaluation and validation/verification. Upgrade of the two units will be done in May 02.											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												M1 ABRAMS TANK (MOD) (GA0700)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	528.7	62.9	18.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4131.8	5835.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	528.7	62.9	18.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4131.8	5835.0	
Initial Spares													
Total Proc Cost	528.7	62.9	18.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4131.8	5835.0	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: This budget line provides for the procurement and installation of modification kits for the Abrams series tank to improve Lethality, Survivability, Safety and Operational Capabilities. Tank Lethality is being improved by the FBCB2 Upgrades. Tank Survivability and Safety improvements include Block G (Manual Blaster, Driver's / Loader's Hatch Ballistic Rims, Automatic Fire Extinguisher System (AFES) Wiring Harness Guard, Driver's Hatch Latch, Ammo Door Latch Mechanism, Smoke Generator Fuel Line, Improved Gunner's Station, Driver's Viewer Quick Release (DVQR), and Battlefield Override); NBC Fire Warning System (NBCFW); new Hand-Held Fire Extinguishers (HHFE); Eyesafe Laser Rangefinder (ESLRF) and Driver's Hatch Interlock (DHI). Tank Operational improvements include the Re-engine; Electronic Obsolescence; Battlefield Combat Identification system (BCIS); Precision Lightweight GPS Receiver (PLGR); Pulse-Jet System (PJS); Vehicle Intercommunications System (VIS); External Auxiliary Power Unit (EAPU); M1A2 Field Upgrades, the M1A1-D (Digitization) program; and the DU Armor and Improved Turret Side Armor programs. Finally, there is the Presidentially directed HALON Replacement program (Ozone Depleting Chemical Replacement). JUSTIFICATION: The priorities noted here in are consistent with USA Armor School requirements and are structured to meet needs validated by tank users in training and testing as well as in actions such as Operation Desert Storm (ODS). Degradation of tank warfighting capability and survivability, increased incidents of vehicle damage and crew injuries will occur if these modifications are delayed or deleted.													

Exhibit P-40M Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No.				Date				February 2000			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 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	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Halon Replacement (HAR) [MOD 1]											
1-92-05-4411	Environmental	9.5	0.3	0.0	0.6	1.0	1.0	1.0	1.0	38.4	52.8
Driver's Hatch Interlock (DHI) [Mod 2]											
1-97-05-4520	Safety	20.5	2.7	0.3	1.3	1.4	4.1	5.2	5.3	13.2	54.0
Vehicle Intercommunications System (VIS) [MOD 3]											
1-92-05-4412	Legislative Compl.	40.4	11.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	54.7
Battlefield Combat I.D. System (BCIS) [MOD 4]											
1-98-05-4543	Operational	0.0	0.0	2.0	3.1	3.0	3.0	3.0	1.4	171.9	187.4
Precision Lightweight GPS Receiver (PLGR) [MOD 5]											
1-92-05-4417	Manprint	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.5	14.1	17.7
Block G Mods [MOD 6]											
1-99-05-4554	Deficiency Correction	47.2	2.0	5.5	2.2	2.5	2.6	2.5	2.5	8.4	75.4
Pulse - Jet System (PJS) [MOD 7]											
1-92-05-4475	Operational	38.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	295.1	337.4
FBCB2 Upgrades [MOD 8]											
1-96-05-4516	Operational	0.0	0.0	0.0	7.7	4.2	2.8	1.1	5.0	56.2	77.0
External Auxiliary Pwr Unit (EAPU) [MOD 9]											
1-85-05-4057	Operational	58.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	39.9	99.6
NBC Fire Warning (NBCFW) [MOD 10]											
1-97-05-4524	Safety	0.0	0.5	1.3	1.5	1.5	1.5	1.5	1.6	4.0	13.4
Hand-Held Fire Extinguisher (HHFE) [MOD 11]											
1-97-05-4525	Safety	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0
M1A2 Field Mods (A2FM) [MOD 12]											
1-97-05-4534	Deficiency Correction	2.1	0.8	0.9	1.0	0.9	1.0	1.4	1.2	3.3	12.6

Exhibit P-40M Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature			Date					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles						February 2000					
Program Elements for Code B Items			Code		Other Related Program Elements						
Description			Fiscal Years								
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Matrix Support (MXSP) [MOD 13]											
OSIP NO 14	Operational	1.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	116.8	122.4
DU Armor [MOD 14]											
1-98-05-4545	Operational	0.0	0.0	0.0	0.0	0.0	0.0	95.3	62.6	659.0	816.9
Improved Turret Side Armor [MOD 15]											
1-99-05-4555	Operational	0.0	0.0	0.0	1.7	3.0	4.4	4.9	4.6	137.5	156.1
Eyesafe LASER Rangefinder [MOD 16]											
1-99-05-4563	Safety	0.0	0.0	0.0	5.1	5.0	4.7	4.8	5.1	115.9	140.6
M1A1-D {Digitized} [MOD 17]											
1-98-05-4542	Operational	4.8	3.5	16.4	0.0	0.0	0.0	0.0	0.0	0.0	24.7
Re-Power [MOD 18]											
1-00-05-0014	Operational	0.0	0.0	0.0	0.0	123.9	0.0	237.8	237.2	1,082.0	1,680.9
Electronic Obsolescence [MOD 19]											
1-00-05-0015	Operational	0.0	0.0	0.0	8.9	23.5	6.0	45.5	62.6	1,376.1	1,522.6
Totals		223.6	26.0	31.6	36.1	170.9	32.1	405.0	391.2	4,131.8	5,448.3

INDIVIDUAL MODIFICATION																																																																																																																		
										Date	February 2000																																																																																																							
MODIFICATION TITLE: Halon Replacement (HAR) [MOD 1] 1-92-05-4411																																																																																																																		
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 818, M1A1 = 4327, M1A2 = 747 TOTAL = 5892																																																																																																																		
DESCRIPTION / JUSTIFICATION: This Modification changes the engine compartment fire suppression system in all models of the Abrams tank. This retrofit involves the substitution of a dry powder fire suppressant for the Halon 1301 gas currently used. This requirement was mandated by the 1988 Montreal Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals [ODC's] including the Halon 1301 used in the Abrams Tank Engine Compartment [Halon 1301 remains authorized for the Abrams Crew Compartment due to survivability concerns]. See 1992 DOD directive 6050.9 which establishes the policy on ODC's for the Armed Forces and DA letter 200 / 9 which implements that policy within the U.S. Army.																																																																																																																		
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INDIVIDUAL MODIFICATION																		Date		February 2000		
MODIFICATION TITLE (Cont):																		Halon Replacement (HAR) [MOD 1] 1-92-05-4411				
FINANCIAL PLAN: (\$ in Millions)																						
FY 1998 and Prior	FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL					
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$						
RDT&E																						
PROCUREMENT																						
Kit Quantity						151		155		165		164		162		5095	5892					
Installation Kits																						
Installation Kits, Nonrecurring																						
Equipment																						
Equipment, Nonrecurring																						
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Engr. & Source Selection																						
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Support Equipment																						
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Installation of Hardware																						
FY 1998 & Prior Eqpt -- Kits																						
FY 1999 Eqpt -- Kits																						
FY 2000 Eqpt -- Kits																						
FY 2001 Eqpt -- Kits																						
FY 2002 Eqpt -- kits								151	0.4								151					
FY 2003 Eqpt -- kits										155	0.4						155					
FY 2004 Eqpt -- kits												165	0.4				165					
FY 2005 Eqpt -- kits														164	0.4		164					
TC Equip-Kits																5257	15.8					
Total Installation								151	0.4	155	0.4	165	0.4	164	0.4	5257	17.4					
Total Procurement Cost	9.5			0.3			0.6		1.0		1.0		1.0		1.0	38.4	52.8					

INDIVIDUAL MODIFICATION												Date	February 2000																																																																																																									
MODIFICATION TITLE: Driver's Hatch Interlock (DHI) [Mod 2] 1-97-05-4520																																																																																																																						
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 818, M1A1 = 4327, M1A2 = 435 TOTAL RQMT = 5580																																																																																																																						
DESCRIPTION / JUSTIFICATION:																																																																																																																						
The Driver's Hatch Interlock (DHI) is a SAFETY modification which provides an electronic interface between the Driver's Hatch and the Turret Drive (Rotation) controls. Its purpose is to preclude turret rotation while the driver's hatch is open. In the recent past there have been several accidents in the field where the driver has been injured or killed by inadvertently extending his head outside the hatch while the turret was being rotated. The DHI will assure that similar incidents will not occur in the future.																																																																																																																						
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INDIVIDUAL MODIFICATION																		
Date February 2000																		
Driver's Hatch Interlock (DHI) [Mod 2] 1-97-05-4520																		
MODIFICATION TITLE (Cont):																		
FINANCIAL PLAN: (\$ in Millions)																		
FY 1998 and Prior	FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																		
PROCUREMENT																		
Kit Quantity	3173											495		495		1057		5580
Installation Kits																		
Installation Kits, Nonrecurring		19.4																
Equipment											360							
Equipment, Nonrecurring																		
Engineering Change Orders																		
Testing																		
Training Equipment		0.1																0.1
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
FY 1998 & Prior Eqpt -- Kits	435	1.0																435
FY 1999 Eqpt -- Kits			1011	2.7														1011
FY 2000 Eqpt -- Kits					107	0.3												107
FY 2001 Eqpt -- Kits							495	1.3										495
FY 2002 Eqpt -- kits									495	1.4								495
FY 2003 Eqpt -- kits											495	1.4						495
FY 2004 Eqpt -- kits													495	1.4				495
FY 2005 Eqpt -- kits															495	1.4		495
TC Equip-Kits																	1552	4.7
Total Installment	435	1.0	1011	2.7	107	0.3	495	1.3	495	1.4	495	1.4	495	1.4	495	1.4	1552	4.7
Total Procurement Cost		20.5		2.7		0.3		1.3		1.4		4.1		5.2		5.3		13.2

INDIVIDUAL MODIFICATION																																																																																																																						
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MODIFICATION TITLE: Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412																																																																																																																						
MODELS OF SYSTEMS AFFECTED: M1 = 0 , IPM1 = 0 , M1A1 = 4337 , M1A2 = 181 TOTAL RQMT = 4518																																																																																																																						
DESCRIPTION / JUSTIFICATION: The Vehicle Intercommunications System (VIS) is an intercom for inter-crew communications and a connection to a radio for tank to tank direct communications. VIS replaces the AN / VIC - 1 which is technologically obsolete, difficult to maintain and susceptible to electronic countermeasures. VIS is a state-of-the-art replacement which has none of these drawbacks. This is a Congressionally mandated program. All milestones are for USA CECOM, the "A" proponent for the VIS program. Current funding includes \$3.0M which Congress added to the President's Budget in FY 99 for validation of the "Wireless" VIS concept. Note that procurements exceed installations. Ten (10) kits were procured as spares and these will NOT be installed.																																																																																																																						
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Initial Operational Test & Eval.										--					3Q94																																																																																																							
IPR Production Decision										--					4Q94																																																																																																							
Installation Schedule: <table style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>120</td><td>120</td><td>120</td><td>120</td> <td>120</td><td>120</td><td>120</td><td>53</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Inputs</td> <td>3405</td><td>120</td><td>120</td><td>83</td> <td>168</td><td>168</td><td>168</td><td>166</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>															Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	120	120	120	120	120	120	120	53													Inputs	3405	120	120	83	168	168	168	166													Outputs																				
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Inputs																																																																																																																						
Outputs																																																																																																																						
Totals																	4518	4518																																																																																																				
METHOD OF IMPLEMENTATION: Depot/Contr. Teams ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 4 Months Contract Dates: FY 1999 JUN 99 FY 2000 N/A FY 2001 N/A Delivery Date: FY 1999 OCT 99 FY 2000 N/A FY 2001 N/A																																																																																																																						

INDIVIDUAL MODIFICATION																		February 2000		
Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT	3745		773																4518	
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring Equipment	35.9		7.7																43.6	
Equipment, Nonrecurring			3.0		2.0														5.0	
Engineering Change Orders																				
Testing																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	3405	4.5	443	0.6	670	1.0													3848	5.1
FY 1999 Eqpt -- Kits																			670	1.0
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	3405	4.5	443	0.6	670	1.0													4518	6.1
Total Procurement Cost		40.4		11.3		3.0														54.7

INDIVIDUAL MODIFICATION																																																																																																																			
Date										February 2000																																																																																																									
MODIFICATION TITLE: Battlefield Combat I.D. System (BCIS) [MOD 4] 1-98-05-4543																																																																																																																			
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1535, M1A2 = 867 TOTAL RQMT = 2402																																																																																																																			
DESCRIPTION / JUSTIFICATION: The Battlefield Combat Identification System (BCIS) is a millimeter wave Question and Answer system that will provide positive identification of friendly ground vehicles to minimize battlefield fratricide and enhance combat effectiveness. The BCIS is a designated Army Horizontal Technology Integration (HTI) Initiative. Note that the cost of installations is included in the hardware cost.																																																																																																																			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																																																			
PLANNED Milestone II Critical Design Review PPQT / LUT T. F. XXI Demo NATO Demo LRIP IPR						ACCOMPLISHED 3Q 93 2Q 94 1Q 95 3Q 97 4Q 97 3Q 99																																																																																																													
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Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																		
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Inputs	10	10	10	10	8	10	10	10									2194	2402																																																																																																	
Outputs	10	10	10	10	10	10	10	10									2212	2402																																																																																																	
METHOD OF IMPLEMENTATION: Contractor Install ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 7 Months																																																																																																																			
Contract Dates: FY 1999 N/A FY 2000 MAR 00 FY 2001 MAR 01																																																																																																																			
Delivery Date: FY 1999 N/A FY 2000 DEC 00 FY 2001 DEC 01																																																																																																																			

INDIVIDUAL MODIFICATION																		Date		February 2000	
MODIFICATION TITLE (Cont):																		Battlefield Combat I.D. System (BCIS) [MOD 4] 1-98-05-4543			
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity					30		40		40		40		40		18		2194		2402		
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment						2.0		3.1		3.0		3.0		3.0		1.4		171.9		187.4	
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits							30												30		
FY 2001 Eqpt -- Kits										40									40		
FY 2002 Eqpt -- kits													40						40		
FY 2003 Eqpt -- kits																			40		
FY 2004 Eqpt -- kits																			40		
FY 2005 Eqpt -- kits															40		2212		2212		
TC Equip-Kits																					
Total Installation						2.0	30	3.1	40	40	40	40	40	40	40	1.4	2212	2402	187.4		
Total Procurement Cost																					

INDIVIDUAL MODIFICATION															
Date February 2000															
MODIFICATION TITLE: Precision Lightweight GPS Receiver (PLGR) [MOD 5] 1-92-05-4417															
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL RQMT = 4327															
DESCRIPTION / JUSTIFICATION:															
The Precision Lightweight GPS Receiver (PLGR) is a self-contained locator unit which can collect and process GPS satellite signals and derive Position (To within + or - 10 meters), Velocity and Time (PVT). The funding shown is for the PLGR Installation Kit only. PLGR units were procured and provided to PM Abrams by PM GPS.															
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:															
ACCOMPLISHED															
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4Q91															
4Q93															
3Q94															
1Q95															
2Q95															
3Q99															
Installation Schedule:															
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INDIVIDUAL MODIFICATION														Date		February 2000				
Precision Lightweight GPS Receiver (PLGR) [MOD 5] 1-92-05-4417																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	38		200		135		135		135		135		135		135		3279		4327	
Installation Kits																				
Installation Kits, Nonrecurring Equipment		0.1		0.5		0.3		0.3		0.3		0.3		0.3		0.4		11.1		13.6
Equipment, Nonrecurring Engineering Change Orders		0.2																		0.2
Data																				
Training Equipment																				
Support Equipment																				
Other [Benet Labs]		0.2																		0.2
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	38	0.1																	38	0.1
FY 1999 Eqpt -- Kits																			200	0.1
FY 2000 Eqpt -- Kits					200	0.1													135	0.1
FY 2001 Eqpt -- Kits							135	0.1											135	0.1
FY 2002 Eqpt -- kits									135	0.1									135	0.1
FY 2003 Eqpt -- kits											135	0.1							135	0.1
FY 2004 Eqpt -- kits													135	0.1					135	0.1
FY 2005 Eqpt -- kits															135	0.1			135	0.1
TC Equip-Kits																	3414	3.0	3414	3.0
Total Installation	38	0.1			200	0.1	135	0.1	135	0.1	135	0.1	135	0.1	135	0.1	3414	3.0	4327	3.7
Total Procurement Cost		0.6		0.5		0.4		0.4		0.4		0.4		0.4		0.5		14.1		17.7

INDIVIDUAL MODIFICATION														
MODIFICATION TITLE: Block G Mods [MOD 6] 1-99-05-4554										Date				
MODELS OF SYSTEMS AFFECTED:										February 2000				
M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 81, TOTAL = 4408														
DESCRIPTION / JUSTIFICATION:														
Block G consists of the following M1A1/M1A2 Tank modifications: [1] Independent Manual Blaster, [2] Driver's/Loader's Hatch Ballistic Rims, [3] AFES Wiring Harness Ballistic Protection, [4] Driver's Hatch Latch, [5] Improved Gunner's Station, [6] Smoke Generator Fuel Line, [7] Ammunition Door Latch Mechanism, and [8] Battlefield Override. Each of these modifications corrects a deficiency found during Live-Fire Testing or during combat in Operation Desert Storm. These modifications were planned for concurrent procurement & installation. Quantities are shown as various because fielded tanks require varying numbers of the listed components due to production differences and because of unmatched kit deliveries from different small business vendors.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:														
Various - Milestones differ for individual Modifications noted above.														
Installation Schedule:														
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003				
Totals		1	2	3	4	1	2	3	4	1	2	3	4	
Inputs														
Outputs														
Totals														
Inputs														
Outputs														
Totals														
Inputs														
Outputs														
Totals														
METHOD OF IMPLEMENTATION: Contractor/Depot Teams Contract Dates: FY 1999 FEB 99 FY 2000 FEB 00 FY 2001 FEB 01 FY 2002 FEB 01 FY 2003 FEB 01 Delivery Date: FY 1999 AUG 99 FY 2000 AUG 00 FY 2001 AUG 01 FY 2002 AUG 01 FY 2003 AUG 01														

INDIVIDUAL MODIFICATION																	Date		February 2000
Block G Mods [MOD 6] 1-99-05-4554																			
MODIFICATION TITLE (Cont):																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			
PROCUREMENT																			
Kit Quantity	var.									var.		var.		var.		var.			
Installation Kits																			
Installation Kits, Nonrecurring Equipment	15.7		0.5		0.3		0.5		0.7		0.8		0.7		0.7		2.8		22.7
Equipment, Nonrecurring Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
FY 1998 & Prior Eqpt -- Kits	var.	31.5		var.	1.5	var.	5.2	var.	1.7	var.	1.8	var.	1.8	var.	1.8	var.	5.6		31.5
FY 1999 Eqpt -- Kits																			1.5
FY 2000 Eqpt -- Kits																			5.2
FY 2001 Eqpt -- Kits																			1.7
FY 2002 Eqpt -- kits																			1.8
FY 2003 Eqpt -- kits																			1.8
FY 2004 Eqpt -- kits																			1.8
FY 2005 Eqpt -- Kits																			1.8
TC Equip-Kits																			5.6
Total Installment	31.5		1.5		5.2		1.7		1.8		1.8		1.8		1.8		5.6		52.7
Total Procurement Cost	47.2		2.0		5.5		2.2		2.5		2.6		2.5		2.5		8.4		75.4

INDIVIDUAL MODIFICATION																																																																																																																										
										Date	February 2000																																																																																																															
MODIFICATION TITLE: Pulse - Jet System (PJS) [MOD 7] 1-92-05-4475																																																																																																																										
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 228 TOTAL RQMT = 4555																																																																																																																										
DESCRIPTION / JUSTIFICATION: The Pulse - Jet System (PJS) replaces a large portion of the current engine air filtration system. The purpose of PJS is to extend the time between required air path servicing in any severe dust environment. The current system requires frequent servicing in such an environment which can introduce dust into the clean air path as each servicing requires that the path is broken in order to complete the service. PJS greatly reduces the number of times the clean air path requires servicing. The result is improved combat performance and reduced O&S costs. PJS was identified as user priority number one by Abrams tank units involved in Operation Desert Storm (ODS). NOTE: 180ea additional PJS Kits were procured using FY97 DBOF OSCR (O & S Cost Reduction) funds. This procurement is NOT a part of the Abrams tank MOD Line procurements but the 180 are being installed using MOD Line \$\$\$, thus total procured will be 180 less than the total installed.																																																																																																																										
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INDIVIDUAL MODIFICATION													
Date													
February 2000													
Pulse - Jet System (PJS) [MOD 7] 1-92-05-4475													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E													
PROCUREMENT													
Kit Quantity	694										3681	251.9	
Installation Kits													
Installation Kits, Nonrecurring													
Equipment	32.6											32.6	
Equipment, Nonrecurring	0.6											0.6	
Engineering Change Orders	1.0											1.0	
Testing	0.9											0.9	
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1998 & Prior Eqpt -- Kits	425	3.6											
FY 1999 Eqpt -- Kits			305	2.4								425	
FY 2000 Eqpt -- Kits					144	1.2						305	
FY 2001 Eqpt -- Kits												144	
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
FY 2004 Eqpt -- kits													
FY 2005 Eqpt -- kits													
TC Equip-Kits											3681	43.2	
Total Installment	425	3.6	305	2.4	144	1.2					3681	43.2	
Total Procurement Cost		38.7		2.4		1.2					295.1		

INDIVIDUAL MODIFICATION													Date		February 2000					
MODIFICATION TITLE (Cont): FBCB2 Upgrades [MOD 8] 1-96-05-4516																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring Equipment							7.7			4.2		2.8		1.1		5.0		56.2		77.0
Equipment, Nonrecurring Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation							7.7			4.2		2.8		1.1		5.0		56.2		77.0
Total Procurement Cost																				

INDIVIDUAL MODIFICATION																																																																																																											
										Date	February 2000																																																																																																
MODIFICATION TITLE: External Auxiliary Power Unit (EAPU) [MOD 9] 1-85-05-4057																																																																																																											
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1826, M1A2 = 1174 TOTAL RQMT = 3000																																																																																																											
DESCRIPTION / JUSTIFICATION: The current use of the Abrams Tank in stationary night defensive position, known as Silent Watch Mode, requires long duration idling of the AGT - 1500 vehicle main engine in order to generate the required electricity. The External Auxiliary Power Unit (EAPU) will provide power for this type of requirement at greatly reduced fuel usage and without main engine wear. The EAPU continuously delivers 2.2 KW of power at 28 Volts DC. The EAPU will be mounted in the left side of the turret bustle rack and will be fully integrated with the tank electrical systems. The EAPU has its own fuel supply and can provide power for 10 to 12 hours on one tank - full of diesel fuel.																																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="10" style="text-align: center;">DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</th> <th style="text-align: center;">PLANNED</th> <th style="text-align: center;">ACCOMPLISHED</th> </tr> </thead> <tbody> <tr> <td colspan="10">Preliminary Design Review</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> <tr> <td colspan="10">Critical Design Review</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> <tr> <td colspan="10">Contractor Test & Eval.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> <tr> <td colspan="10">Development Test & Eval.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> <tr> <td colspan="10">Initial Operational Test & Eval.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> <tr> <td colspan="10">IPR Production Decision</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> <tr> <td colspan="10">TDP Available</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">**</td> </tr> </tbody> </table>												DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:										PLANNED	ACCOMPLISHED	Preliminary Design Review										N/A	**	Critical Design Review										N/A	**	Contractor Test & Eval.										N/A	**	Development Test & Eval.										N/A	**	Initial Operational Test & Eval.										N/A	**	IPR Production Decision										N/A	**	TDP Available										N/A	**
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:										PLANNED	ACCOMPLISHED																																																																																																
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																										
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Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																										
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Outputs																	1162	3000																																																																																									
METHOD OF IMPLEMENTATION: Cntrtr/Depot Teams ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months Contract Dates: FY 1999 N/A FY 2000 N/A FY 2001 N/A Delivery Date: FY 1999 N/A FY 2000 N/A FY 2001 N/A																																																																																																											

INDIVIDUAL MODIFICATION																			February 2000	
MODIFICATION TITLE (Cont):		External Auxiliary Pwr Unit (EAPU) [MOD 9] 1-85-05-4057																		
FINANCIAL PLAN: (\$ in Millions)																				
FY 1998 and Prior	Qty	FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																				
PROCUREMENT																				
Kit Quantity	1838																1162		3000	
Installation Kits																				
Installation Kits, Nonrecurring Equipment	49.9																32.0		81.9	
Equipment, Nonrecurring Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	1666	8.4																		
FY 1999 Eqpt -- Kits			172	1.4														1666	8.4	
FY 2000 Eqpt -- Kits																		172	1.4	
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																	1162	7.9	1162	7.9
Total Installation	1666	8.4	172	1.4													1162	7.9	3000	17.7
Total Procurement Cost		58.3		1.4													39.9			99.6

INDIVIDUAL MODIFICATION																					
MODIFICATION TITLE: NBC Fire Warning (NBCFW) [MOD 10] 1-97-05-4524																					
MODELS OF SYSTEMS AFFECTED:																					
M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 0 TOTAL RQMT = 4327																					
DESCRIPTION / JUSTIFICATION:																					
The NBC Fire Warning (NBCFW) modification is an NBC (Nuclear, Chemical & Biological) system safety fix. It addresses the problem of NBC system fires caused by overheating. The NBCFW will provide for an audible warning alarm in the crew CVC helmet that sounds when the NBC sponson over-temperature light illuminates. This audible warning will allow tank crews to take the early action necessary to properly deal with an NBC filter fire. Only the M1A1 requires this modification. Earlier models do not have the NBC system on-board and M1A2's are being modified through a software change.																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:												ACCOMPLISHED									
Preliminary Design Review												3Q96									
Critical Design Review												3Q97									
Initial Operational Test & Eval.												1Q98									
IPR Production Decision												2Q98									
T D P Available												1Q99									
Installation Schedule:																					
Pr Yr		FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

INDIVIDUAL MODIFICATION																		
NBC Fire Warning (NBCFW) [MOD 10] 1-97-05-4524																		
MODIFICATION TITLE (Cont):																		
FINANCIAL PLAN: (\$ in Millions)																		
FY 1998 and Prior	FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	200		495		495		495		495		495		495		1157		4327	
PROCUREMENT																		
Kit Quantity																		
Installation Kits																		
Installation Kits, Nonrecurring																		
Equipment		0.5		1.2		1.3		1.3		1.3		1.3		1.4		3.3		11.6
Equipment, Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
FY 1998 & Prior Eqpt -- Kits																		
FY 1999 Eqpt -- Kits																	200	0.1
FY 2000 Eqpt -- Kits			200	0.1		495	0.2										495	0.2
FY 2001 Eqpt -- Kits																	495	0.2
FY 2002 Eqpt -- kits																	495	0.2
FY 2003 Eqpt -- kits																	495	0.2
FY 2004 Eqpt -- kits																	495	0.2
FY 2005 Eqpt -- kits																	495	0.2
TC Equip-Kits																	1652	0.7
Total Installment			200	0.1	495	0.2	495	0.2	495	0.2	495	0.2	495	0.2	1652	0.7	4327	1.8
Total Procurement Cost				1.3		1.5		1.5		1.5		1.5		1.6		4.0		13.4

INDIVIDUAL MODIFICATION										Date	February 2000																																																																																																								
MODIFICATION TITLE: Hand - Held Fire Extinguisher (HHFE) [MOD 11] 1-97-05-4525																																																																																																																			
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 3750, M1A2 = 0 TOT RQMT = 3750																																																																																																																			
DESCRIPTION / JUSTIFICATION: Under the terms of the 1988 Montreal Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals (ODC's), HALON 1301 used in the Abrams Tank for fire suppression must be eliminated. One current program does this in the engine compartment. This additional program will replace HALON Hand - Held Fire Extinguishers in the Abrams turret with new Non - HALON extinguishers. The funding identified here - in will support the initial buy of Abrams Hand - Held Fire Extinguishers. Note that installation funding is NOT identified. This program is expected to result in a one - for - one replacement in each Abrams tank which can easily be accomplished by tank crews so deliveries will be directly to tank units and no formal installation program is required nor is one shown below. Also note that four (4) extinguishers are required per tank so that 15000 will equip the 3750 tanks noted above while Reserve and N.G. tank requirements will be funded within their																																																																																																																			
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Contract Dates: FY 1999 N/A																																																																																																																			
Delivery Date: FY 1999 N/A																																																																																																																			
ADMINISTRATIVE LEADTIME: 2 Months																																																																																																																			
PRODUCTION LEADTIME: 4 Months																																																																																																																			

INDIVIDUAL MODIFICATION																																																																																																																																																																																																														
MODIFICATION TITLE: M1A2 Field Mods (A2FM) [MOD 12] 1-97-05-4534														Date																																																																																																																																																																																																
MODELS OF SYSTEMS AFFECTED: M1A2 Only														February 2000																																																																																																																																																																																																
DESCRIPTION / JUSTIFICATION: M1A2 Field Modifications (A2FM) represents funding for a continuing series of upgrades for M1A2 unique LRU's (Line Replaceable Unit's) and/or SRU's (Shop Replaceable Unit's). Examples of these include the Fire - Control Electronics Unit (FCEU), Commander's Integrated Display (CID) and various electronic "cards" (A6, A9, A10, A12 & A13 for example) for which modification rather than replacement is both feasible and cost effective. There is no set quantity for this modification and, therefore no installation schedule in the normal sense of the term. These upgrades will be applied to every fielded M1A2 tank as each is proven and approved and the number of fielded M1A2's will continue to increase. This program is expected to "run" as long as M1A2 production and fielding continues.																																																																																																																																																																																																														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: N / A																																																																																																																																																																																																														
Installation Schedule: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="4">FY 2006</th> <th colspan="4">FY 2007</th> <th rowspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>															Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				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 2004				FY 2005				FY 2006				FY 2007				Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals																		Inputs																		Outputs																	
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METHOD OF IMPLEMENTATION: Depot Team Contract Dates: FY 1999 Delivery Date: FY 1999 ADMINISTRATIVE LEADTIME: FY 2000 PRODUCTION LEADTIME: FY 2001 Months: FY 2001																																																																																																																																																																																																														

INDIVIDUAL MODIFICATION																			Date		February 2000										
MODIFICATION TITLE (Cont):																			M1A2 Field Mods (A2FM) [MOD 12]				1-97-05-4534								
FINANCIAL PLAN: (\$ in Millions)																															
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		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 1998 & Prior Eqpt -- Kits	2.1																			2.1											
FY 1999 Eqpt -- Kits		0.8																		0.8											
FY 2000 Eqpt -- Kits				0.9																0.9											
FY 2001 Eqpt -- Kits					1.0															1.0											
FY 2002 Eqpt -- kits						0.9														0.9											
FY 2003 Eqpt -- kits							1.0													1.0											
FY 2004 Eqpt -- kits								1.4												1.4											
FY 2005 Eqpt -- kits															1.2					1.2											
TC Equip-Kits																		3.3		3.3											
Total Installation	2.1	0.8		0.9		1.0		0.9			1.0		1.4			1.2		3.3		12.6											
Total Procurement Cost	2.1	0.8		0.9		1.0		0.9			1.0		1.4			1.2		3.3		12.6											

INDIVIDUAL MODIFICATION												
Date												February 2000
MODIFICATION TITLE (Cont):												
Matrix Support (MXSP) [MOD 13] OSIP NO 14												
FINANCIAL PLAN: (\$ in Millions)												
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC		TOTAL	
	Qty	Qty	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												
Other												
Interim Contractor Support												
	1.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6			116.8	122.4
Installation of Hardware												
FY 1998 & Prior Eqpt -- Kits												
FY 1999 Eqpt -- Kits												
FY 2000 Eqpt -- Kits												
FY 2001 Eqpt -- Kits												
FY 2002 Eqpt -- kits												
FY 2003 Eqpt -- kits												
FY 2004 Eqpt -- kits												
FY 2005 Eqpt -- kits												
TC Equip-Kits												
Total Installation												
Total Procurement Cost	1.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6			116.8	122.4

INDIVIDUAL MODIFICATION																		
DU Armor [MOD 14] 1-98-05-4545										Date								
February 2000																		
MODIFICATION TITLE: DU Armor [MOD 14] 1-98-05-4545 MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1463, M1A2 = 0 TOTAL = 1463																		
DESCRIPTION / JUSTIFICATION: Depleted Uranium [DU] Armor Package is a Classified Program.																		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: N / A (This is a continuation of the M1A2 Armor Program) 72 armor sets procured with M1A2 upgrade (SSN: GAO 750) funds will be installed with FY2004 funds.																		
Installation Schedule:																		
Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002		FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Totals																		
Inputs																		
Outputs																		
Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				Totals	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Totals																		
Inputs																		
Outputs																		
METHOD OF IMPLEMENTATION:															PRODUCTION LEADTIME: 13 Months			
Contract Dates:															ADMINISTRATIVE LEADTIME: 6 Months			
Delivery Date:															CONTRACTOR:			
FY 1999 N/A FY 1999 N/A															FY 2000 N/A FY 2000 N/A			
FY 1999 N/A FY 1999 N/A															FY 2001 N/A FY 2001 N/A			

INDIVIDUAL MODIFICATION																			February 2000	
MODIFICATION TITLE (Cont):																			Date	
DU Armor [MOD 14] 1-98-05-4545																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity													240		120		1103		1463	
Installation Kits																				
Installation Kits, Nonrecurring Equipment													91.7		56.5		581.0		729.2	
Equipment, Nonrecurring Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits													72	3.6	120	6.1			72	3.6
FY 2004 Eqpt -- kits																			120	6.1
FY 2005 Eqpt -- kits																			1343	78.0
TC Equip-Kits																			1535	87.7
Total Installment													72	3.6	120	6.1	1343	78.0	659.0	816.9
Total Procurement Cost													95.3		62.6		659.0			

INDIVIDUAL MODIFICATION																																																																																																																
										Date	February 2000																																																																																																					
MODIFICATION TITLE: Improved Turret Side Armor [MOD 15] 1-99-05-4555																																																																																																																
MODELS OF SYSTEMS AFFECTED: M1A1 = 100 and M1A2 = 767 - TOTAL = 867																																																																																																																
DESCRIPTION / JUSTIFICATION:																																																																																																																
Improved Turret Side Armor is a completely passive special armor designed to improve RPG (Rocket Propelled Grenade) protection by 250% on the turret sides of the crew compartment. The new design will completely replace the current turret side armor and significantly enhance tank / crew operational capabilities and survivability.																																																																																																																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																																																
PLANNED						ACCOMPLISHED																																																																																																										
Preliminary Design Review - - - - - 4Q98						4Q98																																																																																																										
Contractor Test & Eval. - - - - - 2Q99						2Q99																																																																																																										
Critical Design Review - - - - - 4Q99						4Q99																																																																																																										
IPR Production Decision - - - - - 4Q00																																																																																																																
Tech. Data Package Available - - - - - 1Q01																																																																																																																
Installation Schedule:																																																																																																																
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Pr Yr	FY 1999			FY 2000			FY 2001			FY 2002			FY 2003																																																																																																			
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Contract Dates:				Contractor Team				ADMINISTRATIVE LEADTIME:				PRODUCTION LEADTIME:																																																																																																				
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								6 Months				13 Months																																																																																																				

INDIVIDUAL MODIFICATION												Date	February 2000																																																																																																																																																																																			
MODIFICATION TITLE: Eyesafe Laser Rangefinder (ESLRF) [MOD 16] 1-99-05-4563																																																																																																																																																																																																
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4192, M1A2 = 0 TOTAL =4192																																																																																																																																																																																																
DESCRIPTION / JUSTIFICATION: The Eyesafe Laser Rangefinder (ESLRF) is an improved laser rangefinder which is compatible with existing M1A1 tank sights (can range through obscuration to any target visible in day or night sights) and is eyesafe at any range. This enhancement allows for unit training / warfighting without the need for stringent safety precautions as had been required when employing the Nd:YAG LRF (Neodidium: Yttrium Aluminum Garnet Laser Range Finder) which can permanently damage unprotected eyes. The ESLRF is an integral part of a Force Modernization program that will ensure that the highest priority Force Package I M1A1 Units are equipped with the best A1 possible. The ESLRF represents a significant modification to the A1 fleet which will result in improved tank fightability and survivability.																																																																																																																																																																																																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: N / A - The M1A1 ESLRF program is a continuation of the M1A2 Upgrade ESLRF program. All development, testing and decision milestones are complete.																																																																																																																																																																																																
Installation Schedule: <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th rowspan="2"></th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="4">FY 2006</th> <th colspan="4">FY 2007</th> <th colspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>Complete</th><th></th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td>34</td><td>34</td><td>34</td><td>34</td> <td>52</td><td>53</td><td>53</td><td>53</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td>3459</td><td>4192</td> </tr> <tr> <td>Outputs</td> <td>33</td><td>34</td><td>34</td><td>34</td> <td>33</td><td>34</td><td>34</td><td>34</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td>3602</td><td>4192</td> </tr> </tbody> </table>														Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs																					Outputs																					Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		FY 2004				FY 2005				FY 2006				FY 2007				Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete		Inputs	34	34	34	34	52	53	53	53									3459	4192	Outputs	33	34	34	34	33	34	34	34									3602	4192
Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																																																																																																																															
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	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																																																																																																																															
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete																																																																																																																																																																															
Inputs	34	34	34	34	52	53	53	53									3459	4192																																																																																																																																																																														
Outputs	33	34	34	34	33	34	34	34									3602	4192																																																																																																																																																																														
METHOD OF IMPLEMENTATION: Contractor Team																																																																																																																																																																																																
Contract Dates:				FY 1999 N / A				FY 2000 N / A				FY 2001 N / A				9 Months																																																																																																																																																																																
Delivery Date:				FY 1999 N / A				FY 2000 N / A				FY 2001 N / A				DEC 00 SEP 01																																																																																																																																																																																

INDIVIDUAL MODIFICATION																		February 2000		
Eyesafe Laser Rangefinder (ESLRF) [MOD 16] 1-99-05-4563																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT							185		135		135		135		143		3459		4192	
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring Equipment							5.1		4.0		4.0		4.1		4.3		92.1		113.6	
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																			185	1.0
FY 1999 Eqpt -- Kits																			135	0.7
FY 2000 Eqpt -- Kits																			135	0.7
FY 2001 Eqpt -- Kits																			135	0.7
FY 2002 Eqpt -- kits									185	1.0	135	0.7	135	0.7					135	0.8
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																			3602	23.8
Total Installation									185	1.0	135	0.7	135	0.7	135	0.8	3602	23.8	4192	27.0
Total Procurement Cost							5.1			5.0	4.7		4.8		5.1		115.9		140.6	

INDIVIDUAL MODIFICATION												Date	February 2000																																																																																		
MODIFICATION TITLE: M1A1-D {Digitized} [MOD 17] 1-98-05-4542																																																																																															
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 98, M1A2 = 0 TOTAL = 98																																																																																															
DESCRIPTION / JUSTIFICATION:																																																																																															
The Abrams M1A1-D is an M1A1 Abrams Main Battle Tank that has been equipped with a digital applique command and control package. The A-Kit consists of an Upgraded Tank Commander's Panel (UTCP) and associated peripheral hardware. The B-Kit is the Applique Computer display and keyboard. The C-Kit provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface Unit (DIU) to process raw tank data and format messages for transmittal to the Applique computer. Some of the tanks slated for this improvement also have to be modified to accept the Enhanced Position Locating and Reporting System, Commonly referred to as the EPLRS radio. This digitization modification will enable the M1A1 to exchange digital command and control data in the Army's Common Operating Environment format used the the more advance M1A2 SEP tanks and other members of the combined arms team. It is a key component of																																																																																															
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																															
<table border="0"> <tr> <td></td> <td colspan="5">PLANNED</td> <td colspan="4">ACCOMPLISHED</td> </tr> <tr> <td>Preliminary Design Review</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> <td>2Q98</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Critical Design Review</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> <td>3Q98</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Initial Operational Test & Eval.</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> <td>4Q98</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>IPR Production Decision</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> <td>3Q99</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>E C P Available</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> <td>3Q00</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>T D P Available</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> <td>3Q00</td> <td></td><td></td><td></td><td></td> </tr> </table>											PLANNED					ACCOMPLISHED				Preliminary Design Review	-	-	-	-	-	2Q98					Critical Design Review	-	-	-	-	-	3Q98					Initial Operational Test & Eval.	-	-	-	-	-	4Q98					IPR Production Decision	-	-	-	-	-	3Q99					E C P Available	-	-	-	-	-	3Q00					T D P Available	-	-	-	-	-	3Q00														
	PLANNED					ACCOMPLISHED																																																																																									
Preliminary Design Review	-	-	-	-	-	2Q98																																																																																									
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Installation Schedule:																																																																																															
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Totals																																																																																															
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METHOD OF IMPLEMENTATION: Contractor Team																																																																																															
Contract Dates: FY 1999 SEP 99																																																																																															
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PRODUCTION LEADTIME: 8 Months																																																																																															
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FY 2001 AUG 01																																																																																															
FY 2001 JUN 02																																																																																															

INDIVIDUAL MODIFICATION																																																																						
														Date																																																								
														February 2000																																																								
MODIFICATION TITLE: Re-Power [MOD 18] 1-00-05-0014																																																																						
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 1671, M1A2 = 1097 TOTAL = 2768																																																																						
DESCRIPTION / JUSTIFICATION: This modification is Phase II of the Abrams engine campaign plan. It is intended to reduce the O&S cost of the Abrams Tank engine. This mod will reengine the active component Abrams fleet with a lighter, more fuel efficient and more reliable engine.																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED 1Q01 Preliminary Design Review 4Q01 Critical Design Review 4Q03 Development Test & Eval 2Q04 IPR Decision (LRIP) 3Q04 MWO Approved ACCOMPLISHED																																																																						
Installation Schedule: <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="3">FY 1999</th> <th colspan="3">FY 2000</th> <th colspan="3">FY 2001</th> <th colspan="3">FY 2002</th> <th colspan="3">FY 2003</th> </tr> <tr> <th>1</th><th>2</th><th>3</th> <th>4</th><th>1</th><th>2</th> <th>3</th><th>4</th><th>1</th><th>2</th><th>3</th> <th>4</th><th>1</th><th>2</th> <th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>															Pr Yr	FY 1999			FY 2000			FY 2001			FY 2002			FY 2003			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	1																						
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FY 2004			FY 2005			FY 2006			FY 2007			Totals																																																										
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112	112	112										2544	2768																																																									
METHOD OF IMPLEMENTATION: <table style="width: 100%; font-size: x-small;"> <tr> <td colspan="4">ADMINISTRATIVE LEADTIME: 24 Months</td> <td colspan="4">PRODUCTION LEADTIME: 24 Months</td> </tr> <tr> <td>FY 1999</td><td>Enter Date</td><td>FY 2000</td><td>Enter Date</td> <td>FY 2001</td><td>Enter Date</td><td>FY 2002</td><td>Enter Date</td> </tr> <tr> <td>FY 1999</td><td>Enter Date</td><td>FY 2000</td><td>Enter Date</td> <td>FY 2001</td><td>Enter Date</td><td>FY 2002</td><td>Enter Date</td> </tr> </table>															ADMINISTRATIVE LEADTIME: 24 Months				PRODUCTION LEADTIME: 24 Months				FY 1999	Enter Date	FY 2000	Enter Date	FY 2001	Enter Date	FY 2002	Enter Date	FY 1999	Enter Date	FY 2000	Enter Date	FY 2001	Enter Date	FY 2002	Enter Date																																
ADMINISTRATIVE LEADTIME: 24 Months				PRODUCTION LEADTIME: 24 Months																																																																		
FY 1999	Enter Date	FY 2000	Enter Date	FY 2001	Enter Date	FY 2002	Enter Date																																																															
FY 1999	Enter Date	FY 2000	Enter Date	FY 2001	Enter Date	FY 2002	Enter Date																																																															

INDIVIDUAL MODIFICATION																		February 2000		
Re-Power [MOD 18] 1-00-05-0014																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity									224				404		393		1747		2768	
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring									123.9				237.8		237.2		1082.0		1680.9	
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment									123.9				237.8		237.2		1082.0		1680.9	
Total Procurement Cost																				

INDIVIDUAL MODIFICATION																																																																														
										Date	February 2000																																																																			
MODIFICATION TITLE: Electronics Obsolescence [MOD 19] 1-00-05-0015																																																																														
MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 = 0, M1A1 = 4327, M1A2 = 1174, TOTAL = 5501																																																																														
DESCRIPTION / JUSTIFICATION:																																																																														
The M1A1 electronics employ 1980s or earlier technology. The focal points of M1A1 electronics are the turret network box (TNB) and hull network box (HNB). Both of these components have numerous obsolete parts that are only available through cannibalization of discarded components. Cannibalization is not a viable means to sustain the Abrams until 2030. Replacing the analog TNBs and HNBs with new digital units eliminates the associated obsolescence and allows us to introduce a built-in-test capability to support the Force XXI maintenance structure. Digital TNBs and HNBs also allow future electronic growth by providing unpopulated Versa Module European (VME) card slots. The Abrams M1A2 continuous electronics enhancement program (CEEP) is to upgrade the tank's electronics following a five (5) year cycle. Every five years obsolete components would be replaced with new components, thereby creating a moving technology baseline and resolving the obsolescence issues.																																																																														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED ACCOMPLISHED																																																																														
Redesignated TNB Critical Design Review 2Q00 Developmental Test & Eval 2Q00 IPR Decision 1Q01 Redesignated HNB Preliminary Design Review 2Q00 Critical Design Review 4Q00 Developmental Test & Eval 4Q00 IPR Decision 2Q01																																																																														
Installation Schedule:																																																																														
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FY 2004			FY 2005			FY 2006			FY 2007			Totals																																																																		
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Inputs																																																																														
Outputs																																																																														
METHOD OF IMPLEMENTATION:																																																																														
ADMINISTRATIVE LEADTIME: 24 Months PRODUCTION LEADTIME: 24 Months Contract Dates: FY 1999 Enter Date FY 2000 Enter Date FY 2001 Enter Date Delivery Date: FY 1999 Enter Date FY 2000 Enter Date FY 2001 Enter Date																																																																														

6

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2000

Appropriation / Budget Activity/Serial No:

P-1 Item Nomenclature:

PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles

M1A1D RETROFIT (GA0720)

Program Elements for Code B Items:

Other Related Program Elements:

Code:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty							85	107	10	233	998	1433
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.9	11.6	12.9	6.0	24.0	116.1	171.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	0.9	11.6	12.9	6.0	24.0	116.1	171.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	0.9	11.6	12.9	6.0	24.0	116.1	171.6
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. The A-Kit consists of an Upgraded Tank Commander's Panel (UTCP) and associated peripheral hardware. The B-Kit is the Applique computer display and keyboard. The C-Kit provides a far target capability by integrating a North Finding Module (NFM) and a Digital Interface Unit (DIU) to process raw tank data and format messages for transmittal to the Applique computer. Some of the tanks slated for this improvement also have to be modified to accept the Enhanced Position Locating and Reporting System, commonly referred to as the EPLRS radio.

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

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: M1A1D RETROFIT (GA0720)				Weapon System Type:		Date: February 2000	
		FY 98		FY 99		FY 00		FY 01					
Cost Elements		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-Kit)/1											891		
2. Applique Computer (B-Kit)/1													
3. Far Target (C-Kit) /1													
4. Government Support (including Test)											891		
Total													
1/Funded under SSN GA0700													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		Weapon System Type:			P-1 Line Item Nomenclature: M1A1D RETROFIT (GA0720)					
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date
1. Upgraded Tank Commander's Panel (A-Kit) /1	GDLS /2	CPFF	TACOM							
2. Applique Computer (B-Kit Integration Hardware) /1	PM, FBCB2	GFE	Ft. Monmouth, NJ							
3. Far Target (C-Kit) /1	GDLS/2	CPFF	TACOM							
4. Government Support (including test)	Various	Various	Various	N/A	N/A	N/A				

REMARKS:	1. Funded under SSN GA0700 2. General Dynamics Land Systems, Sterling Heights, MI

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 1 / Tracked Combat Vehicles												SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty						16	20	30	29	27	505	627	
Gross Cost	0.0	0.0	0.0	0.0	0.0	36.1	58.3	87.2	89.8	89.7	1621.4	1982.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	36.1	58.3	87.2	89.8	89.7	1621.4	1982.5	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	36.1	58.3	87.2	89.8	89.7	1621.4	1982.5	
Flyaway U/C													
Wpn Sys Proc U/C						2.3	2.9	2.9	3.1	3.3	3.2	3.2	

DESCRIPTION: The M1A2 Systems Enhancement Program (SEP) upgrades 627 M1A2 tanks to the newer SEP configuration. This modification updates the on-board computer systems of the M1A2 tank and incorporates Second Generation Forward Looking Infra-Red (FLIR) technology into the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV). The total system design also easily accommodates future computer system upgrades. The SEP tank features the Army's Common Operating Environment software, which facilitates the digital flow of command and control data among the members of the combined arms team.

JUSTIFICATION: The SEP Program will modernize the U.S. Army's armor force to enhance the combat effectiveness of the Abrams Tank Fleet and maintain the key elements of the tank industrial base.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)		Weapon System Type:		Date: February 2000		
Cost Elements		FY 98		FY 99		FY 00		FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. SEP	A							19783	16	1236
2. FLIR								13200	16	825
3. M1A2 Depot-Maintenance Pre-MOD								3166		
TOTAL								36149		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		Weapon System Type:		P-1 Line Item Nomenclature: SYSTEM ENHANCEMENT PGM: SEP M1A2 (GA0730)						
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date
1. SEP Kit FY 01	GDLS /1	SS/FFP	TACOM-Warren	Jun-01	Dec-02	16	1236	Yes		Sep 00
2. FLIR FY 01	Various	SS/FFP	CECOM	Nov-00	Jun-02	16	825	Yes		Sep 00
REMARKS: /1 General Dynamics Land System, Sterling Hgts, MI										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles												ABRAMS UPGRADE PROGRAM (GA0750)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	306	120	120	120	120	80	80	80	43	24		1093	
Gross Cost	1230.0	500.8	569.6	688.2	680.4	551.8	560.5	567.8	379.9	280.8	453.5	6463.3	
Less PY Adv Proc	411.9	297.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5		2260.3	
Plus CY Adv Proc	709.1	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5			2260.3	
Net Proc (P-1)	1527.2	461.7	571.3	689.1	633.1	512.9	580.5	472.0	372.7	189.3	453.5	6463.2	
Initial Spares	21.4	9.5	13.4	9.7	9.7	14.8	23.4	25.2	25.3	25.3	113.9	291.6	
Total Proc Cost	1548.6	471.2	584.7	698.8	642.8	527.7	603.9	497.2	398.0	214.6	567.4	6754.8	
Flyaway U/C	3.6	3.6	4.1	5.3	5.3	6.0	6.0	6.1	7.1	9.3			
Wpn Sys Proc U/C	4.0	4.2	4.7	5.7	5.7	6.9	7.0	7.1	8.8	11.7			

DESCRIPTION: The Abrams Tank Upgrade Program supports the Department of Army vision for the future. The Upgrade Program reconfigures M1 Tanks to the M1A2 configuration making it a more survivable and lethal tank. This includes the Commander's Independent Thermal Viewer (CITV), Improved Commander's Weapon Station (ICWS), Position Navigation (POS/NAV) equipment, Radio Interface Unit (RIU), Core Architecture, D. U. Armor, 120mm Gun and Nuclear, Biological and Chemical (NBC) protection. In FY99 2nd Generation Forward Looking Infrared (FLIR) and vehicle core electronic upgrades will be cut into production.

JUSTIFICATION: The Upgrade Program will modernize the U.S. Army's armor force to enhance the combat effectiveness of the Abrams Tank Fleet and maintain the key elements of the tank industrial base.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)				Weapon System Type:		Date: February 2000			
Cost Elements		FY 98		FY 99		FY 00		FY 01		TotalCost \$000		Qty Each		UnitCost \$000	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each						
A															
1. Basic Vehicle		368023	120	3050	327431	120	2729	247045	80	3088					
2. Armor		39784	120	332	56814	121	470	48918	120	408					
3. H/TEU															
4. Engine Refurb		23881	120	199	28502	120	238	18921	80	237					
5. Transmission		24131	120	201	24962	120	208	18866	80	236					
6. Final Drive		1369	240	6	1909	240	8	1363	160	9					
7. Fire Control		1905	120	16	2630	120	22	1857	80	23					
8. Track		5116	18720		5333	18720		3603	12480						
9. Roadwheels		1417	3840		1438	3840		972	2560						
10. Gun Mounts		2526	60	42	2526	60	42	1786	40	45					
11. Gun		14601	120	122	24384	120	203	16911	80	211					
12. Driver's Night Viewer		657	120	5	667	120	6	451	80	6					
13. Basic Issue Items		915	120	8	929	120	8	657	80	8					
14. MILSTRIPS/RIK		864	120	7	877	120	7	592	80	7					
15. VIS		1238	120	10	1277	120	11	895	80	11					
16. Special Tools & Test Sets		16458			18200			10800							
17. System Technical Support (STS)		40686			36945			58877							
18. Project Mgt Administration		3146			3192			3235							
19. Matrix Support		5793			7349			7447							
20. Auxiliary Services		88			2496			2530							
21. Engineering Support		2830			7181			7277							
22. Quality Support		1023			1558			1579							
23. Testing		5136			6335			4450							
24. Transportation (FDT)		417			423			286							
25. Total Package Fielding		9751			12995			13248							
26. II Gen FLIR		101026	120	842	88693	120	739	56181	80	702					
27. Pre Mod Depot Maint		15172	120	126	15348	120	128	12201	80	153					
28. GDLS SEP-S/ISA		2256						10880							
29. Industrial Base/"Shut Down"															
Gross P-1 End Cost		688209	120	5735	680394	120	5670	551828	80	6898					
Less: Prior Year Adv Proc		259891			260738			213406							
Net P-1 Full Funding Cost		428318			419656			338422							
Plus: P-1 CY Adv Proc		260738			213406			174445							
Other Non P-1 Costs															
Initial Spares		9699			9713			14807							
Mods															
TOTAL		698755			642775			527674							

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles					Weapon System Type:			P-1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)				
WBS Cost Elements: Fiscal Years		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 Revis Avail	RFP Issue Date
1. Basic Vehicle												
FY 99		GDLS/1		/2(4)	TACOM-Warren	Feb-99	Aug-99	120	3050	Yes		Jan 95
FY 00		GDLS/1		/2(5)	TACOM-Warren	Feb-00	Aug-00	120	2729	Yes		Jan 95
FY 01		GDLS/1		SS/FFP	TACOM-Warren	Feb-01	Aug-01	80	3088	Yes		Sep 99
2. Armor/3												
FY 99		LITCO/4		SS/CPFF	DOE/5	Jan-98	Feb-99	120	332	NA		NA
FY 00		LITCO/4		SS/CPFF	DOE/5	Jan-99	Feb-00	121	470	NA		NA
FY 01		LITCO/4		SS/CPFF	DOE/5	Jan-00	Feb-01	120	408	NA		NA
3. H/TEU												
FY 98		GDLS/1		Option	TACOM-ACALA	Mar-97	Feb-98	VAR	VAR	Yes		Feb 96
4. Engine Refurb/6												
FY 99		Allied/Signal/7		SS/FFP/C	TACOM-Warren	Feb-98	Feb-99	120	199	Yes		Sep 97
FY 00		Allied/Signal/7		Option	TACOM-Warren	Jan-99	Feb-00	120	238	Yes		Sep 97
FY 01		Allied/Signal/7		Option	TACOM-Warren	Feb-00	Feb-01	80	237	Yes		Sep 97
5. Transmission												
FY 99		Allison Transmission Div/8		Option	TACOM-Warren	Feb-98	Feb-99	120	201	Yes		Dec 96
FY 00		Allison Transmission Div/8		Option	TACOM-Warren	Feb-99	Feb-00	120	208	Yes		Dec 96
FY 01		Allison Transmission Div/8		S/FFP/C	TACOM-Warren	Jul-00	Feb-01	80	236	Yes		Jun 99
REMARKS: /1. General Dynamics Land System, Warren, MI /8. Allison Transmission Div, GM Corp, Indianapolis, IN												
/2. SS/FFP/M5												
/3. Armor Production leads tank production												
/4. Bechtel BXWT, Idaho Falls, ID												
/5. Department of Energy												
/6. Awards are against a Navy BOA Contract therefore no RFP issued only letter with new requirements												
/7. AlliedSignal/Control & Accessories, Tucson, AZ												

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 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 \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years											
6. Final Drive											
FY 99		LOC Performance, Inc/1	Option	TACOM-Warren	Dec-97	Feb-99	240	6	Yes		Apr 95
FY 00		LOC Performance, Inc/1	C/FFP	TACOM-Warren	Dec-98	Feb-00	240	8	Yes		May 98
FY 01		LOC Performance, Inc/1	Option	TACOM-Warren	Dec-99	Feb-01	160	9	Yes		May 98
7. Fire Control											
FY 99		Hughes/2/Various	Various	TACOM-Warren	Var	Feb-99	120	16	Yes		Var
FY 00		Hughes/2/Various	Various	TACOM-Warren	Var	Feb-00	120	22	Yes		Var
FY 01		Hughes/2/Various	Various	TACOM-Warren	Var	Feb-01	80	23	Yes		Var
8. Track											
FY 99		Goodyear Tire & Rubber/3	SS/FFP	TACOM-Warren	May-98	Feb-99	18720		Yes		Dec 97
FY 00		Goodyear Tire & Rubber/3	Option	TACOM-Warren	Mar-99	Feb-00	18720		Yes		Dec 97
FY 01		Goodyear Tire & Rubber/3	Option	TACOM-Warren	Mar-00	Feb-01	12480		Yes		Dec 97
9. Roadwheels											
FY 99		B&C Corp/4	/5	TACOM-Warren	Jan-98	Feb-99	3840		Yes		Sep 95
FY 00		TBD	/5	TACOM-Warren	May-00	Feb-00	3840		Yes		Sep 98
FY 01		TBD	/5	TACOM-Warren	Jan-00	Feb-01	2560		Yes		Sep 98
REMARKS: /1. Loc Performance, Inc, Plymouth, Mi /2. Hughes Aircraft, El Segundo, CA /3. Goodyear Tire & Rubber Co., Akron, OH /4. B&C Corp, Barberton, OH /5. Requirement Contract/FFP											

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked					Date: February 2000				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature:				
Contractor and Location					ABRAMS UPGRADE PROGRAM (GA0750)				
Contract Method and Type					Date of First Delivery				
Location of PCO					QTY Each				
Award Date					Unit Cost \$000				
Specs Avail Now?					Date Revis Avail				
RFP Issue Date									
10. Gun Mounts									
FY 99	RIA/1	WR	Apr-98	Feb-99	60	42	Yes		NA
FY 00	RIA/1	WR	Mar-99	Feb-00	60	42	Yes		NA
FY 01	RIA/1	WR	Apr-00	Feb-01	40	45	Yes		NA
11. Gun									
FY 99	Watervliet Arsenal	WR	Mar-98	Feb-99	120	122	Yes		NA
FY 00	Watervliet Arsenal	WR	Mar-99	Feb-00	120	203	Yes		NA
FY 01	Watervliet Arsenal	WR	Mar-00	Feb-01	80	211	Yes		NA
12. Driver's Night Viewer									
FY 99	CECOM N1CP	REQ	Sep-98	Feb-99	120	5	Yes		NA
FY 00	CECOM N1CP	REQ	Feb-00	Feb-00	120	6	Yes		NA
FY 01	CECOM N1CP	REQ	Feb-01	Feb-01	80	6	Yes		NA
13. Basic Issue Items									
FY 99	TACOM-ACALA	WR	Jun-98	Feb-99	120	8	Yes		NA
FY 00	TACOM-ACALA	WR	Feb-00	Feb-00	120	8	Yes		NA
FY 01	TACOM-ACALA	WR	Feb-01	Feb-01	80	8	Yes		NA
REMARKS:									
/1. RIA, Rock Island Arsenal, Rock Island, IL produces 50% of gun mounts. The remainder are procured with the GDLS contract.									

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles					Weapon System Type:			P-1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)				
WBS Cost Elements: Fiscal Years		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 Revisn Avail	RFP Issue Date
14. MILSTRIPS/RIK												
FY 99		NA		REQ/WR		Various	Feb-99	120	7	Yes		NA
FY 00		NA		REQ/WR		Various	Feb-00	120	7	Yes		NA
FY 01		NA		REQ/WR		Various	Feb-01	80	7	Yes		NA
15. VIS/1												
FY 99		Grumman/2		Option	CECOM	Apr-98	Feb-99	120	10	Yes		Sep 91
FY 00		Grumman/2		Option	CECOM	Aug-99	Feb-00	120	11	Yes		Sep 91
FY 01		Grumman/2		Option	CECOM	Apr-00	Feb-01	80	11	Yes		Sep 91
26. II Gen FLIR												
FY 99		Various		SS/FFP	CECOM	Nov-97	Feb-99	120	842	Yes		Sep 96
FY 00		Various		Option	CECOM	Dec-98	Feb-00	120	739	Yes		Sep 96
FY 01		Various		Option	CECOM	Nov-99	Feb-01	80	702	Yes		Sep 96
28. GDLS SEP-S/ISA												
FY 99		GDLS/3		/4(4)	TACOM-Warren	Feb-99	Aug-99	120	200	N/A		N/A
FY 00		GDLS/3		/4(5)	TACOM-Warren	Feb-00	Aug-00	120	236	N/A		N/A
FY 01		GDLS/3		SS/FFP	TACOM-Warren	Feb-01	Aug-01	80	275	N/A		N/A
REMARKS: /1. VIS, Vehicular Intercommunication System /2. Grumman Aerospace Corp, Bethpage, NY /3. General Dynamics Land Systems, Warren, MI /4. SS/FFP/M5												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 1 / Tracked Combat Vehicles												ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Less PY Adv Proc													
Plus CY Adv Proc	546.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5	0.0		2097.4	
Net Proc (P-1)	546.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5	0.0	0.0	2097.4	
Initial Spares													
Total Proc Cost	546.2	258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5	0.0	0.0	2097.4	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: Advance procurement for long lead materials to support procurement for the Abrams Upgrade Program. 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 (P-10A)														
Appropriation / Budget Activity/Serial No:				First System Award Date:			First System Completion Date:			Date:				
PROCUREMENT OF WPNS & TRKD COMBT VEHIS/1/TRACKED COMBAT VEHICLES				Feb 00			Aug 00			February 2000				
				P-1 Line Item Nomenclature / Weapon System:										
ABRAMS UPGRADE PROGRAM (ADV PROCG) (GA0750)														
(\$ in Millions)														
	PLT (mos)	When Rqd (mos)	Pt Yrs	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	To Comp	Total
End Item Quantity:	*			120	120	120	80	80	80	43	24			
1. Basic Vehicle	18	6		142.3	6.4	17.5	10.8	10.5	9.3	1.8	40.6			239.1
1.1 Termination Liability					86.8	73.3	79.2	41.3	62.3	20.1	15.9			378.9
2. Armor	19	6		9.8	10.0	10.2	11.3	11.5	11.7	15.0				79.6
3. H/TEU	13	6		6.7										6.7
4. Engine Refurb	20	6		4.0	16.4	16.2	9.6	9.5	9.5	5.2	2.9			73.3
5. Transmission	19	6		23.4	24.1	25.0	16.9	17.1	17.5	9.6	5.5			139.0
6. Final Drives	16	6		1.4	1.4	1.9	1.4	1.4	1.4	0.9	0.5			10.2
7. Fire Control	16	6		38.3	1.8	2.6	1.8	1.8	1.9	1.1	0.7			50.0
8. Track	19	6		5.7	5.1	5.3	-3.6	3.7	3.7	2.0	1.2			30.3
9. Roadwheels	16	6		1.4	1.4	1.4	1.0	1.0	1.0	0.6	0.3			8.1
10. Gun Mounts	16	6		2.6	2.5	2.5	1.8	1.8	1.9	1.2	0.6			14.9
11. Gun	16	6		10.6	14.1	23.9	16.9	17.2	17.5	10.6	6.1			116.9
12. Driver's Night Viewer	13	6		0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.1			3.8
13. Basic Issue Items	16	6		0.8	0.9	0.9	0.7	0.7	0.7	0.4	0.2			5.3
14. MILSTRIPS/RIK	16	6		0.5	0.6	0.6	0.4	0.4	0.4	0.2	0.1			3.5
15. VIS	16	6		1.0	1.1	1.2	0.8	0.8	0.9	0.5	0.3			6.8
26. II Gen FLIR	20	8		9.0	84.3	77.5	53.5	52.3	51.6	27.6	15.5			371.4
29. GDLS SEP-S/ISA					2.2		3.3	2.9	2.8	1.5	0.8			13.5
Total Advance Procurement				258.2	259.9	260.7	213.4	174.4	194.4	98.6	91.5			1551.2

Description:

- * 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.

Description:

- * 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-Budget Justification (P-10B)									
Appropriation / Budget Activity/Serial No:				Date:			February 2000		
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV/PROC) (GA0750)					
(\$ in Millions)									
	PLT (mos)	Quantity Per Assembly	Unit Cost	2000			2001		
				Qty	Contract Forecast Date	Total Cost Request	Qty	Contract Forecast Date	Total Cost Request
End Item	*								
1. Basic Vehicle	18	1	0.1	80	Various	10.8	80	Various	10.5
1.1 Termination Liability						79.2			41.3
2. Armor	19	1	0.1	120	Jan 00	11.3	121	Jan 01	11.5
3. H/TEU	13								
4. Engine Refurb	20	1	0.1	80	Feb 00	9.6	80	Feb 01	9.5
5. Transmission	19	1	0.2	80	Jul 00	16.9	80	Jul 01	17.1
6. Final Drives	16	2	0.0	160	Mar 00	1.4	160	Dec 00	1.4
7. Fire Control	16	1	0.0	80	Various	1.8	80	Various	1.8
8. Track	19	156	0.0	12480	Mar 00	3.6	12480	Mar 01	3.7
9. Roadwheels	16	32	0.0	2560	Feb 00	1.0	2560	Jan 01	1.0
10. Gun Mounts	16	1	0.0	40	Apr 00	1.8	40	Apr 01	1.8
11. Gun	16	1	0.2	80	Mar 00	16.9	80	Mar 01	17.2
12. Driver's Night Viewer	13	1	0.0	80	Jul 00	0.5	80	Jul 01	0.5
13. Basic Issue Items	16	1	0.0	80	Sep 00	0.7	80	Sep 01	0.7
14. MILSTRIPS/RIK	16	1	0.0	80	Various	0.4	80	Various	0.4
15. VIS	16	1	0.0	80	Apr 00	0.8	80	Apr 01	0.8
26. II Gen FLIR	20	1	0.7	80	Dec 99	53.5	80	Nov 00	52.3
29. GDLS SEP-S/ISA						3.3			2.9
Total Advance Procurement						213.4			174.4

Description:
* 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.

Description:

- * 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-Present Value Analysis (P-10C)													
Appropriation / Budget Activity/Serial No:			Date: February 2000										
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV PROG) (GA0750)										
			(\$ in Millions)										
	Pr Yrs	1997	1998	1999	2000	2001	2002	2003	2004	2005	To Comp	Total	
Proposal w/o AP													
	Then Year Cost	1230	501	570	688	680	552	561	568	380	281	452	6463
	Constant Year Cost	1292	513	578	694	676	541	541	537	352	255	377	6356
Present Value	1513	565	619	723	685	534	519	501	320	225	298	6502	
AP Proposal													
	Then Year Cost	1528	462	571	689	633	513	581	472	373	189	452	6463
	Constant Year Cost	1628	473	579	695	629	503	560	446	346	172	377	6408
Present Value	1948	521	620	724	638	496	537	416	314	152	298	6664	
AP Savings (Difference)													
	Then Year Cost	298	-39	1	1	-47	-39	20	-96	-7	-92		52
	Constant Year Cost	336	-40	1	1	-47	-38	19	-91	-6	-83		162
Present Value	435	-44	1	1	-47	-38	18	-85	-6	-73			
Remarks:													

Advance Procurement Requirements Analysis-Execution (P-10D)														
Appropriation / Budget Activity/Serial No:				Date: February 2000										
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)										
(\$ in Millions)														
End Item	PLT (mos)	1998				1999				2000		2001		
		Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
1. Basic Vehicle	18	120	Various		5.4		Various	19.5	Various		80	Various	80	Various
1.1 Termination Liability					86.8			73.3						
2. Armor	19	120	Feb 98	Jan 98	10.0	10.0	Jan 99	10.2	10.2	10.2	120	Jan 00	121	Jan 01
3. H/TEU	13													
4. Engine Refurb	20	120	Jan 98	Feb 98	16.4	16.4	Jun 99	16.2	16.2	16.2	80	Feb 00	80	Feb 01
5. Transmission	19	120	Feb 98	Feb 98	24.1	24.1	Feb 99	25.0	25.0	25.0	80	Jul 00	80	Jul 01
6. Final Drives	16	240	Jan 98	Jan 98	1.4	1.4	Dec 98	1.9	1.9	1.9	160	Mar 00	160	Dec 00
7. Fire Control	16	120	Various		1.9		Var	2.6	2.6	2.6	80	Various	80	Various
8. Track	19	18720	Apr 98	May 98	5.1	5.1	Mar 99	5.3	5.3	5.3	12480	Mar 00	12480	Mar 01
9. Roadwheels	16	3840	Apr 98	Jan 98	1.4	1.4	Feb 00	1.4	1.4	1.4	2560	Feb 00	2560	Jan 01
10. Gun Mounts	16	60	Apr 98	Apr 98	2.5	2.5	Apr 99	2.5	2.5	2.5	40	Apr 00	40	Apr 01
11. Gun	16	120	Apr 98	Sep 98	14.1	14.1	Mar 99	23.9	23.9	23.9	80	Mar 00	80	Mar 01
12. Driver's Night Viewer	13	120	Jul 98	Oct 98	0.7	0.7	Feb 00	0.7	0.7	0.7	80	Jul 00	80	Jul 01
13. Basic Issue Items	16	120	Apr 98	Jun 98	0.9	0.9	Feb 00	0.9	0.9	0.9	80	Sep 00	80	Sep 01
14. MILSTRIPS/RIK	16	120	Various		0.6		Various	0.6	0.6	0.6	80	Various	80	Various
15. VIS	16	120	Jun 98	Apr 98	1.2	1.1	Aug 99	1.3	1.2	1.2	80	Apr 00	80	Apr 01
26. II Gen FLIR	20	120	Various	Sep 98	84.3	72.8	Nov 99	77.5	72.8	72.8	80	Dec 99	80	Nov 00
29. GDLS SEP-S/ISA					0.3	0.3								
Total Advance Procurement					257.1	78.0		262.9	159.0	159.0				
Description:														
* 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.														

Description:

* 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-Obligations/Expenditures (P-10E)															
Appropriation / Budget Activity/Serial No:										Date: February 2000					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles										P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)					
(\$ in Millions)															
	Starting Balance	FY 98										Total Obl/Exp (Cum)	Ending Balance (Cum)		
		1997					1998								
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul			Aug	Sep
FY 99 Termination Liability Sche Total Expenditures	73.3 260.7														73.3 260.7
FY 00 Termination Liability Sche	79.2														79.2
FY 01 Termination Liability Sche	41.3														41.3
Narrative: The requirements for all elements of cost are based on prior history and lead times. The procurement for the DECUs, Transmissions, Final Drives, Fire Control, Track, Roadwheels, VIS, II GEN FLIR are Firm Fixed Price Contracts and have no termination liability profile within the contract. The funding is required to purchase hardware in time to reduce the overall procurement leadtime of the M1A2 Abrams major end item.															

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)															
Appropriation / Budget Activity/Serial No:										Date: February 2000					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles										P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)					
(\$ in Millions)															
	Starting Balance	FY 99												Total Obl/Exp (Cum)	Ending Balance (Cum)
		1998													
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
FY 99 Termination Liability Sche Total Expenditures	73.3 260.7			.2	.2	.3	.3	2.3	4.1	7.3	8.2	9.3	9.0	41.2	32.1 231.5
FY 00 Termination Liability Sche	79.2													29.2	79.2
FY 01 Termination Liability Sche	41.3														41.3
Narrative:															

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)															
Appropriation / Budget Activity/Serial No:										Date: February 2000					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles										P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)					
(\$ 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 99 Termination Liability Sche Total Expenditures	32.1 231.5	10.6 10.0	9.6 16.1	11.9 9.9										32.1 36.0	195.5
FY 00 Termination Liability Sche	79.2							3.6	4.4	7.8	8.9	10.1	9.7	44.5	34.7
FY 01 Termination Liability Sche	41.3														41.3
Narrative:															

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)															
Appropriation / Budget Activity/Serial No:										Date: February 2000					
PROCUREMENT OF WPNS & TRKD CMBT VEHS / / / Tracked Combat Vehicles										P-1 Line Item Nomenclature / Weapon System: ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)					
(\$ in Millions)															
	Starting Balance	FY 01													
		2000			2001									Total Obl/Exp (Cum)	Ending Balance (Cum)
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
FY 99 Termination Liability Sche Total Expenditures	195.5														195.5
FY 00 Termination Liability Sche	34.7	11.5	10.4	12.8											34.7
FY 01 Termination Liability Sche	41.3							3.0	3.7	6.7	7.6	8.6	8.3		37.9
															3.4
Narrative:															

Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E)												Date:		
Appropriation / Budget Activity/Serial No:												February 2000		
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles														
P-1 Line Item Nomenclature / Weapon System:														
ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750)														
(\$ in Millions)														
	Starting Balance	2001					2002					Total Obl/Exp (Cum)	Ending Balance (Cum)	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul			Aug
FY 99 Termination Liability Sche Total Expenditures	195.5													195.5
FY 00 Termination Liability Sche	.0													.0
FY 01 Termination Liability Sche	3.4	2.3	1.1										3.4	
Narrative:														

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles											MODIFICATIONS LESS THAN \$5.0M (TCV-WTCV) (GA0925)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	10.6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7
Initial Spares												
Total Proc Cost	10.6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7
Flyaway U/C												
Wpn Sys Proc U/C												

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

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

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles											ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	17.5	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	18.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.5	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	18.5
Initial Spares												
Total Proc Cost	17.5	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	18.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is essential for effective maintenance on all tracked vehicles. JUSTIFICATION: 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-5, Weapon WTCV Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles				P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (TCV-WTCV) (GL3100)				Weapon System Type:		Date: February 2000	
		FY 98		FY 99		FY 00		FY 01							
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	\$000
1. Shop Set, Contact and Emergency Repair G352 4940-00-754-0737															
					28	2	14								
2. Tool Set, Full Tracked Vehicle, Org Maint, G649 Suppl 2															
					61	8	8	137	10	14	135	9	15		
Total															
					89			137			135				

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	1449.7	9.0	8.3	9.7	8.8	9.3	10.0	9.9	10.4	10.6	0.0	1535.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1449.7	9.0	8.3	9.7	8.8	9.3	10.0	9.9	10.4	10.6	0.0	1535.8	
Initial Spares													
Total Proc Cost	1449.7	9.0	8.3	9.7	8.8	9.3	10.0	9.9	10.4	10.6	0.0	1535.8	
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 plants which are no longer required for active production.

JUSTIFICATION: The FY01 request supports PSR to Government owned equipment at Lima Army Tank Plant (LATP) and replace and rehabilitate unscheduled/unplanned emergency repairs of Government owned production machinery, equipment and facility items currently in use at the contractor plant in Muskegon, MI. and Scranton, Pa. Included are rehab of a Vertical/Horizontal Mill Machines, purchase Heat Recovery Units, Coal Conveyor Belt at LATP and rebrick Salt Bath located at Scranton. Also, funding will be used for packing, crating, handling & transportation of Government owned Equipment retained for future production.

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles			P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050)			Weapon System Type:		Date: February 2000					
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each						
		49X4281 LIF, Layaway/Redistribution Various Government & Contractor Facilities Provides for plant clearance and restoration of those areas no longer required for active production. Packing, crating, handling & transportation GFE retained for future prod.				338			351				344			
		Provides non-routine maintenance of real property facilities, I.P.E. purchase & rehab. of production equipment. Machinery consist of Welding, Milling and Shot Blast Machines. Project also provides for Plant Utilities. Provides replacement/rehab of government owned equipment at contractor plants. Also, project covers Unplanned Repairs of equipment and Unplanned Regulatory Requirements. Work is to be performed at Lima Army Tank Plant, Scranton and Muskegon facilities				9332			8501				8906			
		TOTAL				9670			8852				9250			

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000		
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:										
PROCUREMENT OF WPNS & TRKO CMBT VEHs / 2 / Weapons and Other Combat Vehicles			ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)										
Program Elements for Code B Items:			Other Related Program Elements:										
			Code:	A	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	49876	2034			1500	4297	1196	752	818	1072	728		63471
Gross Cost	183.3	18.4			14.4	38.4	12.4	8.1	8.4	11.1	11.1	0.0	317.1
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	183.3	18.4			14.4	38.4	12.4	8.1	8.4	11.1	11.1	0.0	317.1
Initial Spares													
Total Proc Cost	183.3	18.4			14.4	38.4	12.4	8.1	8.4	11.1	11.1	0.0	317.1
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which permits rapid 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 FY97 thru FY05 buys the M240B configuration in the Armor Machine Gun Series. JUSTIFICATION: The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles, and fortified positions.													

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat			P-1 Line Item Nomenclature: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)			Weapon System Type:			Date: February 2000		
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		1. Hardware (Incls Flex Mount & Blank Firing Device)				5160 4572	673 525	8 9	3614 20327 12122	438 2678 1181	8 8 10	10587	1196	9
		2. Engineering Support - In House Support				987			1004			786		
		3. Quality Assurance (ARDEC)							96			122		
		4. Integrated Logistics Support				79			91			93		
		5. Engineering Change Proposals				161			545			204		
		6. Testing										300		
		7. Fielding				440			565			357		
		TOTAL				11399			38364			12449		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles					Weapon System Type: P-1 Line Item Nomenclature: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)					Date: February 2000		
WBS Cost Elements: Fiscal Years		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 Revis Avail	RFP Issue Date
Hardware (Indis Flex Mount & Blank Firing Device)												
FY 99		FN Manuf Inc., Columbia, SC		Option	TACOM - Rock Island	Dec-98	Dec-98	673	8	Yes	No	
		FN Manuf Inc., Columbia, SC		SS/FFP M-3(3)	TACOM - Rock Island	Jul-99	Aug-00	525	9	Yes	No	
FY00		FN Manuf Inc., Columbia, SC		SS/FFP M-3(3)	TACOM - Rock Island	Dec-99	Nov-00	438	8	Yes	No	
		FN Manuf Inc., Columbia, SC		Option	TACOM - Rock Island	Dec-99	Feb-01	2678	8	Yes	No	
		TBS		C/FFP	TACOM-Rock Island	Sep-00	May-02	1181	10	Yes	No	
FY01		TBS		Option	TACOM-Rock Island	Dec-00	May-03	1196	9	Yes	No	
REMARKS: The M240 contract was established as a 3-year multiyear contract (FY97,99,00).												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHs / 2 / Weapons and Other Combat Vehicles												MACHINE GUN, 5.56MM (SAW) (G12900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	66137	3802	406	1525	3698						4280	79848	
Gross Cost	165.8	12.0	3.4	5.7	9.9	0.0	0.0	0.0	0.0	0.0	18.1	214.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	165.8	12.0	3.4	5.7	9.9	0.0	0.0	0.0	0.0	0.0	18.1	214.8	
Initial Spares													
Total Proc Cost	165.8	12.0	3.4	5.7	9.9	0.0	0.0	0.0	0.0	0.0	18.1	214.8	
Flyaway U/C													
Won Sys Proc U/C													

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.

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.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat		P-1 Line Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)		Weapon System Type:		Date: February 2000		
Cost Elements		FY 98		FY 99		FY 00		FY 01		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware	A				4444	1525	3	8596	3698	2
2. GFM										
3. Engineering Support (In-House)					64			185		
4. Quality Assurance (ARDEC)					35			60		
5. Testing (TECOM)					60			100		
6. Engineering Change Proposals (ECP's)					24			116		
7. ILS					40			75		
8. Fielding					763			771		
9. Engineering Study					235					
TOTAL					5665			9903		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKO CMBT VEHS / 2 / Weapons and Other Combat Vehicles		Weapon System Type:		P-1 Line Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)						
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date
Hardware FY99	FN Mfg Co., Inc., Columbia SC	SS/FFP OPTION	TACOM- Rock Island	Nov-98	Aug-99	1525	3	Yes	No	
FY00	FN Mfg Co., Inc., Columbia SC	SS/FFP OPTION	TACOM-Rock Islan	Jan-00	Mar-00	3198	2	Yes	No	
FY00	TBS	TBS	TACOM-Rock Island	Apr-00	Mar-01	500	2	Yes	No	
REMARKS:										

FY 00 / 01 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900)										Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHS / 2 / Weapons and Other Combat Vehicles												GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	13403	2150	400	697	1389	581	772	195				19587	
Gross Cost	214.2	33.0	7.7	15.1	22.9	11.8	15.2	13.7	0.0	0.0	0.0	333.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	214.2	33.0	7.7	15.1	22.9	11.8	15.2	13.7	0.0	0.0	0.0	333.5	
Initial Spares													
Total Proc Cost	214.2	33.0	7.7	15.1	22.9	11.8	15.2	13.7	0.0	0.0	0.0	333.5	
Flyaway U/C													
Wpn Sys Proc U/C													

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.

JUSTIFICATION: The weapon will be mounted on the High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), the Armored Personnel Carrier family of vehicles and the M88A1 Recovery Vehicle. During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount. It will replace select M2 cal .50 and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. Procurement will help reduce critical supply position for high-priority equipment readiness code (ERC) A shortages in Europe, Korea, and CONUS requirements. The Universal Pintle Adaptor is being incorporated on the MK64 Mount to improve the accuracy and dispersion of the MK19-3 when used on the HMMWV application.

Exhibit P-5, Weapon WTCV Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat				P-1 Line Item Nomenclature: GRENADE LAUNCHER, AUTO, 40MM, MK19- 3 (G13400)				Weapon System Type:		Date: February 2000	
Cost Elements				FY 98		FY 99		FY 00		FY 01		FY 01		FY 01	
				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 MK64 ERC A Mounts				10838 1073	697 853	16 1	21075	1389	15	9756	581	17			
2. Round Removal Tool (GFM)							174			66					
3. Engineering Support (In-House)				976			888			1303					
4. Quality Assurance (ARDEC)							60			83					
5. Integrated Logistics Support (ILS)				155			194			186					
6. Engineering Change Proposals (ECP's)				1495			31			86					
7. Engineering Studies															
8. Testing (TECOM)				325			300			194					
9. Fielding				202			161			161					
TOTAL				15064			22883			11835					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		P-1 Line Item Nomenclature: GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400)								
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date
Hardware FY99	SACO Defense, Saco, Maine	SS/FFP M-3(2) M-3(3)	TACOM - Rock Island	Dec-98 Dec-98	Jul-00 Aug-00	138 559	16 16	Yes Yes	No No	
FY00	SACO Defense, Saco, Maine	SS/FFP M-3(3)	TACOM - Rock Island	Dec-99	Feb-01	489	15	Yes	No	
	SACO Defense, Saco, Maine	Option	TACOM - Rock Island	Dec-99	Jul-01	900	15	Yes	No	
FY01	SACO Defence, Saco, Maine	SS/FFP W/Option	TACOM - Rock Island	Mar-01	Apr-02	581	17	Yes	No	
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHs / 2 / Weapons and Other Combat Vehicles												M16 RIFLE (G14900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	542667	15583	11297	16464	12479	10314	3416	6557	20475	19571	20592	679415	
Gross Cost	247.7	6.4	4.4	6.8	5.7	4.8	2.0	3.1	9.4	9.2	9.9	309.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	247.7	6.4	4.4	6.8	5.7	4.8	2.0	3.1	9.4	9.2	9.9	309.4	
Initial Spares													
Total Proc Cost	247.7	6.4	4.4	6.8	5.7	4.8	2.0	3.1	9.4	9.2	9.9	309.4	
Flyaway U/C													
Wpn Sys Proc U/C													

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

JUSTIFICATION: The M16A4 Rifle was developed as part of the Modular Weapon 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. Future production of the rifle will be in the M16A4 configuration. Funding in FY01 is to provide continuous production and to support the current MWS fielding schedule. A total of 116,848 M16A1's have been converted to M16A2's lowering the "to complete" quantity to 20,592.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat				P-1 Line Item Nomenclature: M16 RIFLE (G14900)				Weapon System Type:		Date: February 2000	
Cost Elements	ID	FY 98		FY 99		FY 00		FY 01		TotalCost	UnitCost	Qty	UnitCost
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
		\$000	Each	\$000	Each	\$000	Each	\$000	Each				
1. Rifle (Includes Slings & Magazine)	A			5852 571	15121 1343	0.387 0.425	12479	5094		0.408	10314		0.408
2. Engineering Support (In-House)				133				247			180		
3. Engineering Change Proposals (ECP's)								112			62		
4. Quality Assurance (ARDEC)								30			75		
5. Integrated Logistics Support (ILS)								46			70		
6. Fielding				215				190			196		
TOTAL				6771				5719			4793		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKO CMBT VEHS / 2 / Weapons and Other Combat Vehicles		Weapon System Type:		P-1 Line Item Nomenclature: M16 RIFLE (G14900)							
WBS Cost Elements: Fiscal Years	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 Revis Avail	RFP Issue Date	
1. Rifle (Includes Slings and Magazines)											
FY99	Colt's Mfg Co., Inc. Hartford, CT TBS	Option C/FFP	TACOM - Rock Island TACOM - Rock Island	Jan-99 Apr-00	Mar-00 Feb-02	15121 1343	0.387 0.425	Yes Yes	No No		
FY00	TBS	C/FFP	TACOM - Rock Island	Apr-00	Apr-02	12479	0.408	Yes	No		
FY01	TBS	Option	TACOM - Rock Island	Jan-01	Apr-03	10314	0.408	Yes	No		
REMARKS:											

FY 00 / 01 BUDGET PRODUCTION SCHEDULE										M16 RIFLE (G14900)										February 2000										Date:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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M	F	R	FY	S	QTY	PROC	ACCEP.	BAL	DUE	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D	J	F	M	A	P	R	Y	A	M	J	J	A	S	O	N	D

FY 00 / 01 BUDGET PRODUCTION SCHEDULE										M16 RIFLE (G14900)										February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 2 / Weapons and Other Combat Vehicles											XM107, CAL. 50 SNIPER RIFLE (G01500)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						230	162					392
Gross Cost	0.0	0.0	0.0	0.0	1.1	3.1	2.1	0.0	0.0	0.0	0.0	6.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	1.1	3.1	2.1	0.0	0.0	0.0	0.0	6.4
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	1.1	3.1	2.1	0.0	0.0	0.0	0.0	6.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The XM107 is a caliber .50, sniper rifle. The primary mission of this rifle is to engage and defeat materiel targets out to ranges of 1,700 and 2,000 meters. The secondary role is anti-personnel and Explosive Ordnance Disposal (EOD) at shorter ranges.

JUSTIFICATION: Current Army Sniper system, M24, 7.62mm, has limited range and low deposition of energy on target. The M24 is not effective against materiel targets past 800 meters. The current M24 is not effective in Explosive Ordnance Disposal. The FY 01 procurement will enable the soldier to engage and defeat materiel targets out to ranges of 1,700 and 2,000 meters.

Exhibit P-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat			P-1 Line Item Nomenclature: XM107, CAL. 50 SNIPER RIFLE (G01500)			Weapon System Type:		Date: February 2000			
Cost Elements	ID	CD	FY 98			FY 99			FY 00			FY 01		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware Weapons Laser Protector & Anti-reflection Device	B											1946 104	230 230	
2. ESIP/QA									77			425		
3. Testing									33			350		
4. Integrated Logistical Support									35			70		
5. Fielding												50		
6. ECPs												140		
7. Reprogrammed									988					
TOTAL									1133			3085		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		Weapon System Type:			P-1 Line Item Nomenclature: XM107, CAL 50 SNIPER RIFLE (G01500)					
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date
Hardware										
FY01										
Weapon Laser Protector & Anti-Reflection Device	Barrett Firearms Mfg., Christian, TN TBS	C/FFP C/FFP	ARDEC ARDEC	Jan-01 Jun-01	Jul-01 Jul-01	230 230	8			Sep 97 Jul 00
REMARKS: Solicitation issued in Sep 97 included production options for FY01 and FY02.										

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:										P-1 Item Nomenclature:		
PROCUREMENT OF WPNS & TRKO CMBT VEHS / 2 / Weapons and Other Combat Vehicles										5.56 CARBINE M4 (G14904)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	68698	10603	7484	6310	8687	8309					30218	140309
Gross Cost	38.0	6.5	4.2	4.2	5.3	5.2	0.0	0.0	0.0	0.0	21.2	84.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	38.0	6.5	4.2	4.2	5.3	5.2	0.0	0.0	0.0	0.0	21.2	84.5
Initial Spares												
Total Proc Cost	38.0	6.5	4.2	4.2	5.3	5.2	0.0	0.0	0.0	0.0	21.2	84.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: The M4 Carbine is a 5.56mm gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and will replace all M3A1 WWII era .45 cal Submachine guns, and selective M16 series rifles and M9 pistols. It provides the individual soldier operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 rifle. JUSTIFICATION: The M4 Carbine will provide soldiers with a compact, light-weight weapon that can provide better self protection and additional firepower in close quarters. The FY01 program will allow for the uninterrupted fielding of the M4 Carbine to Army units. Procurement is necessary to achieve the Army Procurement Objective (APO) for the M4 Carbine.												

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat				P-1 Line Item Nomenclature: 5.56 CARBINE M4 (G14904)				Weapon System Type:		Date: February 2000	
Cost Elements		FY 98		FY 99		FY 00		FY 01					
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 M4 Carbine w/Sling Magazine, Blank Firing Attachment, and Improved Buttstock	A				3288	6310	1	4552	8687	1	4354	8309	1
2. Engineering Support - In House Support					424			278			316		
3. Engineering Change Proposals (ECP's)					161			91			50		
4. Quality Assurance (ARDEC)								75			75		
5. Integrated Logistics Support (ILS)					75			75			75		
6. Fielding/Transportaion					246			215			320		
7. Engineering Study													
TOTAL					4194			5286			5190		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		Weapon System Type:		P-1 Line Item Nomenclature: 5.56 CARBINE M4 (G14904)							
WBS Cost Elements: Fiscal Years	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 Revisn Avail	RFP Issue Date	
FY99	Colt's Mfg Co., Inc. Hartford, CT	SS/FFP M-4(3)	TACOM - Rock Island	Feb-99	Apr-00	3684	1	Yes	No		
	Colt's Mfg Co., Inc. Hartford, CT	SS/FFP M-4(4)	TACOM - Rock Island	Feb-99	Nov-00	2626	1	Yes	No		
FY00	Colt's Mfg Co., Inc. Hartford, CT	Option/ FY98 SS/FFP	TACOM - Rock Island	Jan-00	Jul-01	8687	1	Yes	No		
FY01	Colt's Mfg Co., Inc. Hartford, CT	Option/ FY98 SS/FFP	TACOM - Rock Island	Jan-01	Mar-02	8309	1	Yes	No		
REMARKS:											

FY 00 / 01 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: 5.56 CARBINE M4 (G14904)										Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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	Hardware	1	98&PR	A	77.9	75.0	2.9	0.5	0.5	0.5	0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 2 / Weapons and Other Combat Vehicles												MARK-19 MODIFICATIONS (GB3000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	0.0	15.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	0.0	15.0	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	0.0	15.0	
Fiyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Adjustable Sight Bracket (ASB), when attached to the MK19 Grenade Machine Gun will provide a mounting interface for various night vision devices.

JUSTIFICATION: The ASB adjusts to allow the fire control to maintain a line of sight to target out to max range while the weapon is elevated to engage targets. The FY 00/01 procurement allows for the mounting of Night Vision Devices on the weapon. The bracket in conjunction with Night Vision devices will result in reduced target acquisition time.

Exhibit P-40M Budget Item Justification Sheet												Date	February 2000
Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles										P-1 Item Nonendurance		MARK-19 MODIFICATIONS (GB3000)	
Program Elements for Code B Items										Code		Other Related Program Elements	
Description		Fiscal Years											
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total		
Adjustable Sight Bracket													
TBD1	Operational	0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	5.7	20.7		
Totals		0.0	0.0	2.0	1.8	0.7	2.7	3.9	3.9	5.7	20.7		

INDIVIDUAL MODIFICATION																																																																																																																						
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MODIFICATION TITLE: Adjustable Sight Bracket TBD1																																																																																																																						
MODELS OF SYSTEMS AFFECTED: MK19 Grenade Machine Gun																																																																																																																						
DESCRIPTION / JUSTIFICATION: The Adjustable Sight Bracket (ASB), when attached to the MK19 Grenade Machine Gun will provide a mounting interface for various night vision devices. The ASB adjusts to allow the fire control to maintain a line of sight to target out to max range while the weapon is elevated to engage targets. The ASB in conjunction with Night Vision devices will result in reduced target acquisition time.																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Materiel Work Order Production Contract Award First Production Delivered First Unit Equipped PLANNED 2Q00 4Q00 3Q01 4Q01 ACTUAL																																																																																																																						
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="4">FY 2006</th> <th colspan="4">FY 2007</th> <th rowspan="2">To Complete</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td>1</td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>															Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	1																	Inputs																		Outputs																																	
Pr Yr	FY 2004				FY 2005				FY 2006				FY 2007				To Complete																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																																						
Totals	1																																																																																																																					
Inputs																																																																																																																						
Outputs																																																																																																																						
METHOD OF IMPLEMENTATION: Field Application																																																																																																																						
Contract Dates: FY 1999																																																																																																																						
Delivery Date: FY 1999																																																																																																																						
ADMINISTRATIVE LEADTIME:																																																																																																																						
FY 2000 SEP 00 5 Months FY 2001 MAR 01 12 Months FY 2000 JUN 01 FY 2001 FEB 02																																																																																																																						

INDIVIDUAL MODIFICATION																			February 2000	
Adjustable Sight Bracket TBD1																				
FINANCIAL PLAN: (\$ in Millions)																				
MODIFICATION TITLE (Cont):	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0.473																			0.473
PROCUREMENT					1594		1601		457		2538		3650		3646		4514		18000	
Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware					1.426		1.403		0.406		2.377		3.559		3.497		4.966		17.634	
Engineering Support																				
Testing					0.425		0.300		0.250		0.250		0.250		0.250		0.500		2.225	
Integrated Logistical Support					0.010												0.025		0.035	
Fielding					0.060		0.060		0.060		0.060		0.060		0.060		0.120		0.480	
					0.050		0.050		0.025		0.050		0.050		0.050		0.100		0.375	
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits							400		1194		1201								1594	
FY 2001 Eqpt -- Kits									400		457								1601	
FY 2002 Eqpt -- kits											600		1938						457	
FY 2003 Eqpt -- kits													733						2538	
FY 2004 Eqpt -- kits															2917				3650	
FY 2005 Eqpt -- kits															211				3646	
TC Equip-Kits																	3435			
Total Installation							400		1594		2258		2671		3128		7949		18000	
Total Procurement Cost					2.0		1.8		0.7		2.7		3.9		3.9		5.7		20.7	

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:										P-1 Item Nomenclature:		
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles										M4 CARBINE MODS (GB3007)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.9	4.8	7.4	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0.0	27.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.9	4.8	7.4	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0.0	27.6
Initial Spares												
Total Proc Cost	0.9	4.8	7.4	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0.0	27.6
Flyaway U/C												
Wpn Sys Proc U/C												

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

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

Exhibit P-40M Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No.						Date		February 2000			
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 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	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Modular Weapon System											
TBD1	Operational	5.8	3.9	0.0	2.5	0.0	0.0	0.0	0.0	0.0	12.2
Close Combat Optic											
TBD2	Operational	5.1	2.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	13.0
M203 for M4 Carbine											
TBD3	Operational	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
M4 Carbine Buttstock											
TBD4	Operational	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Totals											
		13.1	6.7	5.3	2.5	0.0	0.0	0.0	0.0	0.0	27.7

INDIVIDUAL MODIFICATION															Date	February 2000
MODIFICATION TITLE: Modular Weapon System TBD1																
MODELS OF SYSTEMS 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, back-up sights, etc., based upon mission requirements.																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: ACTUAL 3Q95-2Q96 4Q97 4Q97 4Q98 2Q99																
Developmental/Operational Tests Milestone III Production Decision Production Contract Award First Production Hardware Delivered First Unit Equipped PLANNED																
Installation Schedule:																
Inputs Outputs		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003						
		1	2	3	4	1	2	3	4	1	2	3	4			
Totals																
Inputs Outputs		FY 2004		FY 2005		FY 2006		FY 2007		To						
		1	2	3	4	1	2	3	4	1	2	3	4	Complete		
Totals																
METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months																
Contract Dates: FY 1999 Jul 99 FY 2000 Jan 01 FY 2001 Jan 01																
Delivery Date: FY 1999 Jan 00 FY 2000 Dec 01																

INDIVIDUAL MODIFICATION														February 2000						
Modular Weapon System TBD1																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		1.158																		1.158
PROCUREMENT																				
Quantity (Rail Systems)	15058		7788				5400												28246	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		5.411		3.352				2.322												11.085
Equipment, Nonrecurring																				
Engineering Support		0.258		0.343				0.092												0.693
Testing		0.020																		0.020
Integrated Logistical Support		0.040		0.030				0.030												0.100
Fielding		0.117		0.124				0.060												0.301
Engineering Study				0.040																0.040
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	2000		9500																15058	
FY 1999 Eqpt -- Kits					3558														7788	
FY 2000 Eqpt -- Kits					7788															
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits										5400									5400	
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	2000	5.8	9500	3.9	11346			2.5		5400									28246	
Total Procurement Cost																				12.2

INDIVIDUAL MODIFICATION															Date	February 2000		
MODIFICATION TITLE: Close Combat Optic TBD2																		
MODELS OF SYSTEMS AFFECTED: M4 Carbine, M68 Sight Reflex																		
DESCRIPTION / JUSTIFICATION:																		
The M68 Sight will be installed on the M4 Carbine. The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity. The close combat optic gives the soldier greater hit probability in daylight, low light level, wet weather and other adverse conditions.																		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:															PLANNED		ACTUAL	
Development/Operational Test															1/2Q96			
Type Classification (LRIP)															4Q96			
Production Contract Award															4Q96			
First Production Hardware Delivered															1Q97			
First Unit Equipped															2Q98			
Installation Schedule:																		
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003								
Totals		1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																		
Outputs																		
Totals																		
Inputs																		
Outputs																		
Totals																		
METHOD OF IMPLEMENTATION: Field Application																		
ADMINISTRATIVE LEADTIME: 1 Months																		
PRODUCTION LEADTIME: 10 Months																		
Contract Dates:																		
FY 1999 Feb 99																		
FY 2000 Jan 00																		
FY 1999 Nov 99																		
FY 2000 Apr 00																		
FY 2001																		
FY 2001																		
Delivery Date:																		

INDIVIDUAL MODIFICATION													
Close Combat Optic TBD2													February 2000
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1998 Qty	FY 1998 \$	FY 1999 Qty	FY 1999 \$	FY 2000 Qty	FY 2000 \$	FY 2001 Qty	FY 2001 \$	FY 2002 Qty	FY 2002 \$	FY 2003 Qty	FY 2003 \$	TOTAL Qty
RDT&E		1.469											1.469
PROCUREMENT													
Quantity	23300		11625		20320								55245
Installation Kits													
Installation Kits, Nonrecurring													
Hardware		4.504	2.423		4.977								11.904
Equipment, Nonrecurring													
Engineering Support		0.363	0.163		0.225								0.751
Testing		0.150			0.050								0.200
Integrated Logistical Support		0.050			0.020								0.070
Fielding		0.050			0.020								0.070
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1998 & Prior Eqpt -- Kits	4399		18901										23300
FY 1999 Eqpt -- Kits					11625								11625
FY 2000 Eqpt -- Kits					10659		9661						20320
FY 2001 Eqpt -- Kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
FY 2004 Eqpt -- kits													
FY 2005 Eqpt -- kits													
TC Equip-Kits													
Total Installment	4399	5.1	18901	2.6	22284	5.3	9661						55245
Total Procurement Cost													13.0

INDIVIDUAL MODIFICATION															Date	February 2000
MODIFICATION TITLE: M203 for M4 Carbine TBD3																
MODELS OF SYSTEMS AFFECTED: M4 Carbine, M4A1																
DESCRIPTION / JUSTIFICATION: The Army units assigned the M4 Carbine will obtain the capability to fire the M203 Grenade Launcher (GL) with the M4 Carbine.																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Developmental/Operational Tests Type Classification/Milestone III Production Contract Award First Production Hardware Delivered First Unit Equipped PLANNED 1Q97 4Q97 4Q97 3Q98 4Q98																
Installation Schedule:																
Inputs Outputs		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003						
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Totals																
Inputs																
Outputs																
Inputs Outputs		FY 2004		FY 2005		FY 2006		FY 2007		To						
		1	2	3	4	1	2	3	4	1	2	3	4	Complete	Totals	
1		2	3	4	1	2	3	4	1	2	3	4				
Totals																
METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: Months																
Contract Dates: FY 1999 FY 2000 FY 2001 FY 2001																
Delivery Date: FY 1999 FY 2000 FY 2001 FY 2001																

INDIVIDUAL MODIFICATION														February 2000						
MODIFICATION TITLE (Cont):														M203 for M4 Carbine TBD3						
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		0.631																		0.631
PROCUREMENT																				
Quantity	5152																		5152	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware		1.148																		1.148
Equipment, Nonrecurring																				
Engineering Support		0.348																		0.348
Testing		0.012																		0.012
Integrated Logistical Support		0.040																		0.040
Fielding		0.030																		0.030
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	2576		2576																5152	
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	2576		2576																5152	
Total Procurement Cost		1.6																		1.6

INDIVIDUAL MODIFICATION														
										Date		February 2000		
MODIFICATION TITLE: M4 Carbine Buttstock TBD4														
MODELS OF SYSTEMS AFFECTED: M4 Carbine														
DESCRIPTION / JUSTIFICATION: The M4 Improved Buttstock provides the rifleman with features for obtaining the proper shooting form; stock/shoulder weld and stock/cheek weld. This program provides the rifleman with an ergonomically optimized buttstock for the M4 Carbine.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Finalize Design Contract Award (Limited Rate) First Production Hardware Delivered MWO/First Unit Equipped PLANNED ACCOMPLISHED 1Q98 2Q98 3Q98 1Q99														
Installation Schedule:														
Inputs Outputs		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003				
		1	2	3	4	1	2	3	4	1	2	3	4	
Inputs Outputs		FY 2004		FY 2005		FY 2006		FY 2007		To		Totals		
		1	2	3	4	1	2	3	4	1	2	3	4	
METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 3 Months														
Contract Dates: FY 1999 Aug 99 FY 2000 FY 2001														
Delivery Date: FY 1999 Oct 99 FY 2000 FY 2001														

INDIVIDUAL MODIFICATION														February 2000
MODIFICATION TITLE (Cont): M4 Carbine Buttstock TBD4														Date
FINANCIAL PLAN: (\$ in Millions)														
	FY 1998 and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL				
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	\$
RDT&E														
PROCUREMENT														
Quantity	10300	30769											41069	
Installation Kits														
Installation Kits, Nonrecurring														
Hardware	0.519	0.142												0.7
Equipment, Nonrecurring														
Engineering Support	0.063	0.042												0.1
Testing		0.057												0.1
Integrated Logistical Support	0.020	0.005												0.0
Fielding														
Other														
Interim Contractor Support														
Installation of Hardware														
FY 1998 & Prior Eqpt -- Kits														
FY 1999 Eqpt -- Kits														
FY 2000 Eqpt -- Kits														
FY 2001 Eqpt -- Kits														
FY 2002 Eqpt -- kits														
FY 2003 Eqpt -- kits														
FY 2004 Eqpt -- kits														
FY 2005 Eqpt -- kits														
TC Equip-Kits														
Total Installation														
Total Procurement Cost	10300	30769											41069	0.8

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles												SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	6.0	0.0	0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	38.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	6.0	0.0	0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	38.6	
Initial Spares													
Total Proc Cost	6.0	0.0	0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	38.6	
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.													
JUSTIFICATION:													
The rails will allow for the attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip and horizontal handgrip, which will provide the soldier additional capabilities to engage targets at extended ranges and during periods of limited visibility. The short barrel, when used in conjunction with the M5 Collapsible Buttstock, shortens the M249 Machine Gun by more than 10 inches enhancing the operational capability by improving MOUT maneuverability and Airborne/Air Assault jump capabilities.													

Exhibit P-40M Budget Item Justification Sheet												Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature											
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		SQUAD AUTOMATIC WEAPON (MOD) (GZ1290)											
Program Elements for Code B Items		Code		Other Related Program Elements									
Description		Fiscal Years										Total	
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC			
M249 Feedtray Covers													
TBD1	Operational	0.0	0.0	5.3	8.5	0.0	0.0	0.0	0.0	0.0	0.0	13.7	
M249 Rails/Bipod/Handguard													
TBD2	Operational	0.0	0.0	0.0	0.5	5.4	4.1	4.8	0.0	0.0	0.0	14.9	
M249 Short Barrel													
TBD3	Operational	0.0	0.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	
Totals		0.0	0.0	8.3	10.0	5.4	4.1	4.8	0.0	0.0	0.0	32.6	

* The Prior Year Total on the P40 includes \$6.M of programs no longer on this line.

INDIVIDUAL MODIFICATION																																																																																																																						
												Date	February 2000																																																																																																									
MODIFICATION TITLE: M249 Feedtray Covers TBD1																																																																																																																						
MODELS OF SYSTEMS AFFECTED: M249 Squad Automatic Weapon & Machine Gun																																																																																																																						
DESCRIPTION / JUSTIFICATION: The M249 Feedtray Cover will provide a Military Standard 1913 rail interface. The rail will allow mounting standard military optics (M145 Machine Gun Optics, TWS, PVS-4 etc), directly to the machine gun. The rail is required to ensure that advanced optical sights can be mounted on the M249 providing the soldier additional capabilities to engage targets at extended ranges and during periods of limited visibility.																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Developmental/User Test Production Decision Production Contract Award First Production Hardware Delivered First Unit Equipped PLANNED 2Q00 3Q00 4Q00 ACTUAL 3Q98 4Q98																																																																																																																						
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				FY 2000		Jun 00		FY 2001		Jun 01																																																																																																												

INDIVIDUAL MODIFICATION																				
M249 Feedtray Covers TBD1																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0.602																			0.6
PROCUREMENT																				
Quantity			22336		36570														58906	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware					4.932		8.046													13.0
Engineering Support																				0.5
Testing					0.232		0.285													0.1
Integrated Logistical Support					0.050		0.050													0.1
Fielding					0.050		0.050													0.1
Other					0.025		0.025													0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits			7445		14891														22336	
FY 2001 Eqpt -- Kits					12190				24380										36570	
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment			7445		27081		8.5		24380										58906	
Total Procurement Cost					5.3															13.7

INDIVIDUAL MODIFICATION												Date	February 2000																																																												
MODIFICATION TITLE: M249 Rails/Bipod/Handguard TBD2																																																																									
MODELS OF SYSTEMS AFFECTED: M249 Squad Automatic Weapon & Machine Gun																																																																									
DESCRIPTION / JUSTIFICATION:																																																																									
The M249 Squad Automatic Weapon (SAW) is a 5.56mm, lightweight, machine gun that will be utilized in the automatic rifle role and the machine gun role. The front rails will be fastened to the sides and bottom of the M249 SAW receiver. They will allow the attachment of a large variety of existing and future high technology electronic and night vision devices, vertical handgrip and horizontal handgrip. The front side rails accommodate the devices when the weapon is used in either role. When the SAW is used in the automatic rifle role, the bottom rail provides an attachment point for the vertical handgrip.																																																																									
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PLANNED 2Q01 3Q01 4Q01 2Q02 4Q02																																																																									
Developmental/Operational Test																																																																									
Production Decision																																																																									
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First Production Hardware Delivered																																																																									
First Unit Equipped																																																																									
Installation Schedule:																																																																									
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Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																								
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METHOD OF IMPLEMENTATION:																																																																									
FY 1999				Enter Date				FY 2000				Enter Date				ADMINISTRATIVE LEADTIME: 10 Months		PRODUCTION LEADTIME: 7 Months																																																							
FY 1999				Enter Date				FY 2000				Enter Date				FY 2001		AUG 01																																																							
FY 1999				Enter Date				FY 2000				Enter Date				FY 2001		MAR 02																																																							
Contract Dates:														Delivery Date:																																																											

INDIVIDUAL MODIFICATION																													
MODIFICATION TITLE: M249 Short Barrel TBD3														Date															
MODELS OF SYSTEMS AFFECTED: IM249 Squad Automatic Weapon & Machine Gun																													
DESCRIPTION / JUSTIFICATION:																													
The M249 Machine Gun Short Barrel will provide a short version of the 5.56mm automatic weapon. The Short Barrel, when used in conjunction with the M5 Collapsible Buttstock, shortens the M249MG by more than 10 inches. The resultant short weapon enhances operational capability by improving MOUT maneuverability and Airborne/Air Assault jump capabilities.																													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:										PLANNED					ACTUAL														
Developmental/User Test															1Q00														
Production Decision															2Q00														
Production Contract Award															3Q00														
First Production Hardware Delivered															1Q01														
First Unit Equipped															2Q01														
Installation Schedule:																													
Pr Yr		FY 1999			FY 2000			FY 2001			FY 2002			FY 2003															
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
Inputs																													
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Totals																													
METHOD OF IMPLEMENTATION:																													
Contract Dates:					ADMINISTRATIVE LEADTIME:					5 Months					PRODUCTION LEADTIME: 6 Months														
FY 1999					Enter Date					FY 2000					May 00					FY 2001					May 01				
FY 1999					Enter Date					FY 2000					Nov 00					FY 2001					Nov 01				
Delivery Date:																													

INDIVIDUAL MODIFICATION																				
M249 Short Barrel TBD3																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity			4536				1184												5720	
Installation Kits																				
Installation Kits, Nonrecurring																				
Hardware					2.395		0.625													3.0
Engineering Support					0.400		0.250													0.7
Testing					0.100		0.050													0.2
Integrated Logistical Support					0.075		0.050													0.1
Fielding					0.030		0.025													0.1
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																			4536	
FY 2001 Eqpt -- Kits																			1184	
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment																			5720	
Total Procurement Cost					3.0		1.0		1184											4.0

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:			P-1 Item Nonendowment:									
PROCUREMENT OF WPNS & TRKD CMVT VEHs / 2 / Weapons and Other Combat Vehicles			MEDIUM MACHINE GUNS (MODS) (GZ1300)									
Program Elements for Code B Items:			Other Related Program Elements:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	6.3	1.9	0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0	0.0	15.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.3	1.9	0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0		15.4
Initial Spares												
Total Proc Cost	6.3	1.9	0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0	0.0	15.4
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 flex mount pintle. Since the initial fielding of the M240B, various system enhancements have been identified that further improves the use of this weapon system by reducing weight, increasing functionality, and improving training capability.

JUSTIFICATION: The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles and fortified positions. The system enhancements have been identified by fielded units as those which are desired to further improve this remarkably reliable weapon system.

Exhibit P-40M Budget Item Justification Sheet										Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		MEDIUM MACHINE GUNS (MODS) (GZ1300)							
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles											
Program Elements for Code B Items		Code		Other Related Program Elements							
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
M240B System Improvements											
TBD1		0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.0	0.0	1.2
Improved Tripod											
TBD2		0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	4.5	10.5
Totals		0.0	0.0	0.0	0.5	0.7	0.0	3.0	3.0	4.5	11.7

* The Prior Year Total on the P40 includes \$8.2M of programs no longer on this line.

INDIVIDUAL MODIFICATION																																																																																																																						
MODIFICATION TITLE: M240B System Improvements TBD1														Date																																																																																																								
MODELS OF SYSTEMS AFFECTED: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)														February 2000																																																																																																								
DESCRIPTION / JUSTIFICATION: The M240B system improvements decrease the system weight and improve the weapon system functionality. Providing capability to carry and attach weapon system accessories, provide for adjustable bipod, improved ergonomics of buttstock and improvements in the heatshield design attains increased functionality. Reducing weight in various weapon and tripod components attains the reduction in weight.																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Planned Development/Operational Tests Mar 00 Production Decision OCT 01 Production Contract Award Jun 01 First Production Hardware Delivered Dec 01 First Unit Equipped Mar 02 </td> <td style="width: 50%; vertical-align: top; text-align: center;"> ACTUAL </td> </tr> </table>															Planned Development/Operational Tests Mar 00 Production Decision OCT 01 Production Contract Award Jun 01 First Production Hardware Delivered Dec 01 First Unit Equipped Mar 02	ACTUAL																																																																																																						
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METHOD OF IMPLEMENTATION: <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Contract Dates: FY 1999</td> <td style="width: 33%;">ADMINISTRATIVE LEADTIME: 8 Months</td> <td style="width: 33%;">PRODUCTION LEADTIME: 6 Months</td> </tr> <tr> <td>Delivery Date: FY 1999</td> <td>FY 2000 FY 2000</td> <td>FY 2001 JUN 01 FY 2001 DEC 01</td> </tr> </table>															Contract Dates: FY 1999	ADMINISTRATIVE LEADTIME: 8 Months	PRODUCTION LEADTIME: 6 Months	Delivery Date: FY 1999	FY 2000 FY 2000	FY 2001 JUN 01 FY 2001 DEC 01																																																																																																		
Contract Dates: FY 1999	ADMINISTRATIVE LEADTIME: 8 Months	PRODUCTION LEADTIME: 6 Months																																																																																																																				
Delivery Date: FY 1999	FY 2000 FY 2000	FY 2001 JUN 01 FY 2001 DEC 01																																																																																																																				

INDIVIDUAL MODIFICATION																				
M240B System Improvements TBD1												February 2000								
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity							3300		5000										8300	
Installation Kits								0.276												0.693
Installation Kits, Nonrecurring									0.417											
Hardware																				
Equipment, Nonrecurring								0.050												0.125
Engineering Support																				
Testing																				
Integrated Logistical Support								0.037												0.087
Fielding								0.132												0.332
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- Kits																				
FY 2001 Eqpt -- Kits																				
FY 2002 Eqpt -- kits									2400			900							3300	
FY 2003 Eqpt -- kits												2700							5000	
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment								0.5	2400	0.7	3600		2300						8300	1.2
Total Procurement Cost																				

INDIVIDUAL MODIFICATION																																																																																																								
MODIFICATION TITLE: Improved Tripod TBD2														Date																																																																																										
MODELS OF SYSTEMS AFFECTED: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000)																																																																																																								
DESCRIPTION / JUSTIFICATION:																																																																																																								
The Light Weight Tripod will reduce the weight by approximately 50 percent of the current tripod. It will incorporate a modern traverse and elevating mechanism that will maintain predetermined elevation throughout the full range of weapon traverse, as well as have a series of index marks that enable gunners to construct a range data card.																																																																																																								
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <table border="0"> <tr> <td></td> <td>Planned</td> <td>ACTUAL</td> <td colspan="12"></td> </tr> <tr> <td>Development/Operational Tests</td> <td>3Q03</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>Type Classification (LRP)</td> <td>4Q03</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>Production Contract Award</td> <td>2Q04</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>First Production Hardware Delivered</td> <td>4Q04</td> <td></td> <td colspan="12"></td> </tr> <tr> <td>First Unit Equipped</td> <td>1Q05</td> <td></td> <td colspan="12"></td> </tr> </table>																Planned	ACTUAL													Development/Operational Tests	3Q03														Type Classification (LRP)	4Q03														Production Contract Award	2Q04														First Production Hardware Delivered	4Q04														First Unit Equipped	1Q05													
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First Unit Equipped	1Q05																																																																																																							
Installation Schedule:																																																																																																								
Pr Yr	FY 1999			FY 2000			FY 2001			FY 2002			FY 2003																																																																																											
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																								
Inputs																																																																																																								
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Outputs																																																																																																								
METHOD OF IMPLEMENTATION: <table border="0"> <tr> <td>Contract Dates:</td> <td>FY 1999</td> <td colspan="3">ADMINISTRATIVE LEADTIME:</td> <td colspan="3">9 Months</td> <td colspan="3">PRODUCTION LEADTIME:</td> <td colspan="3">9 Months</td> </tr> <tr> <td>Delivery Date:</td> <td>FY 1999</td> <td colspan="3">FY 2000</td> <td colspan="3">FY 2001</td> <td colspan="3">FY 2001</td> <td colspan="3">FY 2001</td> </tr> </table>															Contract Dates:	FY 1999	ADMINISTRATIVE LEADTIME:			9 Months			PRODUCTION LEADTIME:			9 Months			Delivery Date:	FY 1999	FY 2000			FY 2001			FY 2001			FY 2001																																																																
Contract Dates:	FY 1999	ADMINISTRATIVE LEADTIME:			9 Months			PRODUCTION LEADTIME:			9 Months																																																																																													
Delivery Date:	FY 1999	FY 2000			FY 2001			FY 2001			FY 2001																																																																																													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHs / 2 / Weapons and Other Combat Vehicles												HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	3.3	3.5	2.8				0.0	9.6	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: Howitzer Improvement Program and Enhancement (HIPE) for the 155MM, M198, Medium Towed Howitzer													
JUSTIFICATION: FY01 funding is required to meet two of the major thrusts for ForceXXI and for Army After Next (AAN) to modernize and digitize current weapon systems. The M198 Howitzer must be modernized in order to perform it's mission of general support for the light division. The modifications applied with this funding fulfill this requirement. The HIPE will greatly enhance the mobility, survivability, and responsiveness of the M198. These modifications will ensure that the M198 will continue to be a force multiplier today and in the future.													

Exhibit P-40M Budget Item Justification Sheet											Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature										
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		HOWITZER, TOWED, 155MM, M198 (MODS) (GA0430)										
Program Elements for Code B Items		Code	Other Related Program Elements									
Description		Fiscal Years										
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total	
TBD1												
Block1 Upgrade	Operational	0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6	
Totals		0.0	0.0	3.3	3.5	2.8	0.0	0.0	0.0	0.0	9.6	

INDIVIDUAL MODIFICATION														
MODIFICATION TITLE: M198 HIPE										Date				
February 2000														
MODELS OF SYSTEMS AFFECTED: M198, 155MM Towed Howitzer														
DESCRIPTION / JUSTIFICATION:														
This block will add: (1) Hydraulic Power Assist Kit (Hypak) which will significantly reduce soldier workload and response time; (2) pre-modification depot maintenance.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:														
					Planned		Accomplished		Planned		Accomplished			
					2Q98		1Q01		4Q02		1Q01		4Q02	
					2Q99		2Q98		3Q98		3Q98		3Q98	
					4Q99		4Q99		4Q99		4Q99		4Q99	
					2Q00		2Q00		2Q00		2Q00		2Q00	
					1Q01		1Q01		1Q01		1Q01		1Q01	
Installation Schedule:														
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003				
Totals		1 2		3 4		1 2		3 4		1 2		3 4		
Inputs		150		150		150		150		150				
Outputs		38		38		38		38		38				
Installation Schedule:														
Pr Yr		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008				
Totals		1 2		3 4		1 2		3 4		1 2		3 4		
Inputs		150		150		150		150		150				
Outputs		38		38		38		38		38				
METHOD OF IMPLEMENTATION:														
Contractor					ADMINISTRATIVE LEADTIME:					PRODUCTION LEADTIME:				
FY 1999					FY 2000 Jan 00					FY 2001 Jan 01				
FY 1999					FY 2000 Nov 00					FY 2001 Nov 01				
Contract Dates:														
Delivery Date:														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 2 / Weapons and Other Combat Vehicles												M119 MODIFICATIONS (GC0401)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	4.8	4.8	4.8	4.7	4.9	4.8	0.0	0.0	0.0	28.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	4.8	4.8	4.8	4.7	4.9	4.8	0.0	0.0	0.0	28.7	
Initial Spares													
Total Proc Cost	0.0	0.0	4.8	4.8	4.8	4.7	4.9	4.8	0.0	0.0	0.0	28.7	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: Light Artillery System Improvement Plan (LASIP) for the 105mm, M119A1 Light, Towed Howitzer JUSTIFICATION: The 105mm M119A1 Light, Towed Howitzer was selected as the weapon of choice for the light forces because it was a nondevelopmental item (NDI) with growth potential. Now that 418 M119A1 howitzers have been fielded, it is time to realize that growth potential. The Light Artillery System Improvement Plan (LASIP) initiates this process by correcting known deficiencies, improving reliability, availability and maintainability (RAM), and providing solutions to requests for minor operational enhancements. The LASIP was developed by the M119A1 Howitzer Improvement Team (HIT), chartered specifically to respond to improvements requested by field artillery units, the U.S. Army Field Artillery School (USAFAS) and the U.S. Army Training and Doctrine Command (TRADOC).													

Exhibit P-40M Budget Item Justification Sheet												Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature											
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		M115 MODIFICATIONS (GC0401)											
Program Elements for Code B Items		Code		Other Related Program Elements									
Description		Fiscal Years										Total	
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC			
TBD1													
Block1 Upgrade	Operational	4.8	4.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	
TBD2													
Block2 Upgrade	Operational	0.0	0.6	2.5	4.7	4.9	4.8	0.0	0.0	0.0	0.0	17.5	
Totals		4.8	4.8	4.8	4.7	4.9	4.8	0.0	0.0	0.0	0.0	28.7	

INDIVIDUAL MODIFICATION																																																																																															
MODIFICATION TITLE: TBD1 Block1 Upgrade										Date	February 2000																																																																																				
MODELS OF SYSTEMS AFFECTED: Howitzer, Light Towed, 105mm M119A1																																																																																															
DESCRIPTION / JUSTIFICATION: Retrofit Low Temp Recuperator 1-90-05-7875: the seals function only to temperature of -25F not the -50F. Improve Indirect Fire control; Upgrade M187 1-94-05-7911; The M119A1 indirect fire control system fails approximately 14 times more often than other hardware fire control systems when Operational Mode Profile (OMP) is factored in. Upgrade Cam Follower Arm: preventing damage to the cam follower will improve reliability, availability and maintainability while reducing Operating and Support costs (OSCR). Improve Firing Stays: the design and mounting clearances for the clevis pins on the rear firing stays of the firing platform make it very difficult to attach the stays to the trail during emplacement. Improve Traveling Stays: the design and mounting clearances for the clevis pins on the traveling stays make it very difficult to attach the stays to the trail when preparing for towing. Modify Brake System: the new modified brake system is of commercial design which provides better brakes and has lower spares costs. Add Trail Lifting Handles: due to limited clearance, the user has requested trail lifting handles be designed.																																																																																															
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <table border="1"> <thead> <tr> <th></th> <th colspan="2">Planned</th> <th colspan="2">Accomplished</th> <th colspan="2">Planned</th> <th colspan="2">Accomplished</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Validate Materiel change (MC)</td> <td></td> <td></td> <td></td> <td>3Q90</td> <td></td> <td>Deliver First Mod Kit</td> <td></td> <td>1Q99</td> </tr> <tr> <td>Critical Design Review</td> <td></td> <td></td> <td></td> <td>3Q91</td> <td></td> <td>First Unit Equipped (FUE)</td> <td></td> <td>1Q99</td> </tr> <tr> <td>Complete Testing of Prototype</td> <td></td> <td></td> <td></td> <td>3Q92</td> <td></td> <td>Deliver Last Mod Kit</td> <td>4Q00</td> <td></td> </tr> <tr> <td>Release Technical Data Package (TDP)</td> <td></td> <td></td> <td></td> <td>1Q93</td> <td></td> <td>Last Unit Equipped</td> <td>4Q00</td> <td></td> </tr> <tr> <td>Award Contract for Modification Kits</td> <td></td> <td></td> <td></td> <td>2Q98</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>													Planned		Accomplished		Planned		Accomplished											Validate Materiel change (MC)				3Q90		Deliver First Mod Kit		1Q99	Critical Design Review				3Q91		First Unit Equipped (FUE)		1Q99	Complete Testing of Prototype				3Q92		Deliver Last Mod Kit	4Q00		Release Technical Data Package (TDP)				1Q93		Last Unit Equipped	4Q00		Award Contract for Modification Kits				2Q98																									
	Planned		Accomplished		Planned		Accomplished																																																																																								
Validate Materiel change (MC)				3Q90		Deliver First Mod Kit		1Q99																																																																																							
Critical Design Review				3Q91		First Unit Equipped (FUE)		1Q99																																																																																							
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Installation Schedule: <table border="1"> <thead> <tr> <th>Pr Yr</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td>46</td> <td>76</td> <td>63</td> <td>38</td> <td>46</td> <td>58</td> <td>43</td> <td>36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Outputs</td> <td>46</td> <td>76</td> <td>63</td> <td>38</td> <td>46</td> <td>58</td> <td>43</td> <td>36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs	46	76	63	38	46	58	43	36													Outputs	46	76	63	38	46	58	43	36												
Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003																																																																														
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																											
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	FY 2004				FY 2005				FY 2006				FY 2007				Totals																																																																														
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	To Complete																																																																														
Inputs																		406																																																																													
Outputs																		406																																																																													
METHOD OF IMPLEMENTATION: Unit Application Contract Dates: FY 1999 Multiple Delivery Date: FY 1999 Multiple																																																																																															
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months FY 2000 Multiple FY 2001 Multiple																																																																																															

INDIVIDUAL MODIFICATION														February 2000						
TBD1 Block1 Upgrade																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	110		125		171														406	
Installation Kits																				
Installation Kits, Nonrecurring Equipment		4.337		3.666		1.656														9.659
Equipment, Nonrecurring		0.026																		0.026
Engineering Change Orders		0.032		0.025		0.025														0.082
Data		0.162		0.225		0.235														0.622
Training Equipment																				
Support Equipment		0.167																		0.167
Other																				0.131
Contractor Support				0.051		0.080														
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	38	0.040	72	0.080															110	0.120
FY 1999 Eqpt -- Kits			113	0.125															125	0.145
FY 2000 Eqpt -- Kits					12	0.020													171	0.247
FY 2001 Eqpt -- Kits					171	0.247														
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																				
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	38	0.040	185	0.205	183	0.267													406	0.512
Total Procurement Cost		4.764		4.172		2.263														11.199

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKO CMBT VEHS / 2 / Weapons and Other Combat Vehicles												M16 RIFLE MODS (GZ2800)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	33.6	4.9	4.5	5.2	7.1	9.6	2.1	0.0	2.4	2.4	0.0	71.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	33.6	4.9	4.5	5.2	7.1	9.6	2.1	0.0	2.4	2.4	0.0	71.9	
Initial Spares													
Total Proc Cost	33.6	4.9	4.5	5.2	7.1	9.6	2.1	0.0	2.4	2.4	0.0	71.9	
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 by 30 round magazines. The M16 Rifle Modifications Program provides a close combat optic, 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.

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. day/night sights, laser pointers, ancillary weapons, etc.) based upon the mission. The top carry sling maintains the rifle in an upright position freeing the user's hands for other tasks. The permanent back-up, rear aperture, iron sight provides that capability in the event it becomes immediately necessary.

Exhibit P-40M Budget Item Justification Sheet										Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		M16 RIFLE MODS (GZ2800)							
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles											
Program Elements for Code B Items		Code		Other Related Program Elements							
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Modular Weapon System M16/M203											
TBD1	Operational	4.3	3.5	7.2	9.6	2.1	0.0	2.4	2.4	0.0	31.5
Close Combat Optic M16											
TBD2	Operational	7.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
Totals											
		12.2	5.2	7.2	9.6	2.1	0.0	2.4	2.4	0.0	41.1

* The Prior Year Total on the P-40 includes \$30.9 of programs no longer on this line plus \$12.2M of programs presently being executed, while the FY 1998 Total on the P40M (\$12.2M) only addresses the later.

INDIVIDUAL MODIFICATION														
														Date
														February 2000
MODIFICATION TITLE: Modular Weapon System M16/M203 TBD1														
MODELS OF SYSTEMS AFFECTED: Rifle, 5.56mm M16A2														
DESCRIPTION / JUSTIFICATION: The modular weapon is a system of mounting rails/methods that allows the custom configuration of M16 Rifles with accessories and ancillary items such as optics, night sights, IR aiming light, the grenade launcher, back-up sights, etc., based upon mission requirements in the field, without tools.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Developmental/Operational Tests Milestone III Production Decision Production Contract Award First Production Hardware Delivered First Unit Equipped PLANNED 3Q95-2Q96 3Q97 4Q97 4Q98 2Q99 ACTUAL														
Installation Schedule:														
Inputs Outputs	Pr Yr	FY 1999		FY 2000		FY 2001		FY 2002		FY 2003				
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs Outputs	Totals	1	2	3	4	1	2	3	4	1	2	3	4	
	To													
METHOD OF IMPLEMENTATION: Field Application ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months														
Contract Dates: FY 1999 Jul 99 FY 2000 Jan 00 FY 2001 Jan 01														
Delivery Date: FY 1999 Jan 00 FY 2000 Dec 00 FY 2001 Dec 01														

INDIVIDUAL MODIFICATION																	Date		February 2000	
Modular Weapon System M16/M203 TBD1																				
FINANCIAL PLAN: (\$ in Millions)																				
MODIFICATION TITLE (Cont):	FY 1998 and Prior Qty	FY 1998 \$	FY 1999 Qty	FY 1999 \$	FY 2000 Qty	FY 2000 \$	FY 2001 Qty	FY 2001 \$	FY 2002 Qty	FY 2002 \$	FY 2003 Qty	FY 2003 \$	FY 2004 Qty	FY 2004 \$	FY 2005 Qty	FY 2005 \$	TC		TOTAL	
																	Qty	\$	Qty	\$
RDT&E	1.158																			1.158
PROCUREMENT																				
Quantity (Rail Systems)	4903		6000		12000		17800		1200					4910		4910			51723	
Installation Kits																				
Installation Kits, Nonrecurring Hardware		3.676	3.179		6.832		9.230		1.850					2.200		2.200				29.167
Equipment, Nonrecurring		0.402	0.247		0.150		0.150		0.137					0.117		0.111				1.314
Engineering Support		0.055																		0.055
Testing		0.065	0.025		0.025		0.060		0.050					0.050		0.050				0.325
Integrated Logistical Support		0.078	0.057		0.173		0.152		0.050					0.050		0.050				0.610
Fielding																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt -- Kits	2000		2500		403														4903	
FY 1999 Eqpt -- Kits					6000														6000	
FY 2000 Eqpt -- Kits							10000		2000										12000	
FY 2001 Eqpt -- Kits									15000							2800			17800	
FY 2002 Eqpt -- kits																1200			1200	
FY 2003 Eqpt -- kits																				
FY 2004 Eqpt -- kits																4910		4910	4910	
FY 2005 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment	2000		2500		6403		10000		17000		4000					4910		4910	51723	
Total Procurement Cost		4.3		3.5		7.2		9.6		2.1				2.4		2.4				31.5

INDIVIDUAL MODIFICATION															Date	February 2000		
MODIFICATION TITLE: Close Combat Optic M16 TBD2																		
MODELS OF SYSTEMS AFFECTED: M16A2/A4 Rifle, M68 Sight Reflex																		
DESCRIPTION / JUSTIFICATION:																		
The M68 Sight will be installed on the M16A2/A4 Rifle																		
The Close Combat Optic allows the soldier to fire his weapon with both eyes open allowing greater awareness of events happening in close proximity to the soldier and improves hit probability in daylight, low light level, wet weather and other adverse conditions.																		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:										PLANNED							ACTUAL	
Development/Operational Test																	1/2Q96	
Type Classification (LRIP)																	4Q96	
Production Contract Award																	4Q96	
First Production Hardware Delivered																	1Q97	
First Unit Equipped																	2Q98	
Installation Schedule:																		
Pr Yr		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003								
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																		
Outputs																		
Totals																		
Pr Yr		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008								
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																		
Outputs																		
Totals																		
METHOD OF IMPLEMENTATION: Field Application																		
ADMINISTRATIVE LEADTIME: 1 Months																		
PRODUCTION LEADTIME: 10 Months																		
Contract Dates: FY 1999 Jan 99 FY 2000 FY 2001																		
Delivery Date: FY 1999 Oct 99 FY 2000 FY 2001																		

INDIVIDUAL MODIFICATION																					
Close Combat Optic M16 TBD2																					
MODIFICATION TITLE (Cont):																					
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1998 and Prior Qty	FY 1998 \$	FY 1999 Qty	FY 1999 \$	FY 2000 Qty	FY 2000 \$	FY 2001 Qty	FY 2001 \$	FY 2002 Qty	FY 2002 \$	FY 2003 Qty	FY 2003 \$	FY 2004 Qty	FY 2004 \$	FY 2005 Qty	FY 2005 \$	TC Qty	TC \$	TOTAL Qty	TOTAL \$	
RDT&E	1.470																			1.470	
PROCUREMENT																					
Quantity	36161		7105																	43266	
Installation Kits																					
Installation Kits, Nonrecurring																					
Hardware	6.993		1.454																		
ECP	0.026																				8.447
Engineering Support	0.721		0.215																		0.026
Testing	0.062																				0.936
Integrated Logistical Support	0.070		0.010																		0.062
Fielding	0.070		0.010																		0.080
Other																					0.080
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits	12601		16949		6611															36161	
FY 1999 Eqpt -- Kits					7105															7105	
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment	12601		16949		13716															43266	
Total Procurement Cost		7.9		1.7																9.6	

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles			MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)									
Program Elements for Code B Items:			Other Related Program Elements:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	72.8	0.6	1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	82.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	72.8	0.6	1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	82.4
Initial Spares												
Total Proc Cost	72.8	0.6	1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	82.4
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. JUSTIFICATION: Funds identified in FY00/FY01 will provide M145 Machine Gun Optic Sights for the M249, M60 and M240B Machine Guns. The optic sight will allow the soldier to identify and engage targets more effectively than the existing iron sighting system. The optic sight also provides the soldier with a greater hit probability.												

Exhibit P-40M Budget Item Justification Sheet										Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) (GC0925)							
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles											
Program Elements for Code B Items		Code		Other Related Program Elements							
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
M145 Machine Gun Optic		1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	9.0
TBD1	Operational										
Totals		1.3	1.1	1.0	0.8	1.3	0.8	1.3	1.3	0.0	9.0

* The Prior Year Total on the P-40 includes \$ 73.5M of programs no longer on this line.

INDIVIDUAL MODIFICATION													
Machine Gun Optics TBD1													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1998 Qty	FY 1998 \$	FY 1999 Qty	FY 1999 \$	FY 2000 Qty	FY 2000 \$	FY 2001 Qty	FY 2001 \$	FY 2002 Qty	FY 2002 \$	FY 2003 Qty	FY 2003 \$	TOTAL Qty
RDTE	2.127												2.127
PROCUREMENT													
Quantity	1901		658		1436		1133		2029		1254		12775
Installation Kits													
Installation Kits, Nonrecurring													
Hardware			0.354		0.773		0.610		1.091		0.674		7.077
Equipment, Nonrecurring			0.455		0.139		0.137		0.122		0.133		1.249
Engineering Support			0.270		0.050		0.020		0.020		0.020		0.354
Testing			0.019		0.020		0.020		0.020		0.020		0.159
Integrated Logistical Support			0.020		0.020		0.020		0.020		0.020		0.150
Fielding													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1998 & Prior Eqpt -- Kits													1901
FY 1999 Eqpt -- Kits													658
FY 2000 Eqpt -- Kits													1436
FY 2001 Eqpt -- Kits													1133
FY 2002 Eqpt -- kits													2029
FY 2003 Eqpt -- kits													1254
FY 2004 Eqpt -- kits													2182
FY 2005 Eqpt -- kits													2182
TC Equip-Kits													
Total Installment													12775
Total Procurement Cost													9.0

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:										P-1 Item Nomenclature:		
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles										ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	64.3	0.9	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.0	75.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	64.3	0.9	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.0	75.3
Initial Spares												
Total Proc Cost	64.3	0.9	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.3	0.0	75.3
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 units to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance.

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-5, Weapon WTCV Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat				P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (WOCV-WTCV) (GL3200)				Weapon System Type:		Date: February 2000	
Cost Elements			FY 98		FY 99		FY 00		FY 01					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Shot Gun, 12 Guage	A	G124				104	400	0.260	100	400	0.250			
2. Shop Equip, Small Arms Repair, Shelter Mtd 4940-00-209-6236	A	G337				80	2	40						
3. Tool Set, Instrument and Fire Control FM 4931-00-754-0740	A	G371							56	2	28	56	2	28
4. Shop Set, Small Arms, Field Maint, PCS Set D 4933-00-348-7396	A	G385				184	2	92				150	2	75
5. Shop Set, Small Arms FM Basic 4933-00-754-0664	A	G723							19	1	19	38	2	19
6. Tool Set Battalion Maint 4940-01-140-2364	A	G427				501	63	8	532	66	8	456	57	8
7. Tool Kit, Electronic Sys Maint 5180-01-168-0487	A	S380				302	28	11	465	78	6	457	76	6
8. Shop Set, Small Arms, FM Basic 4933-00-754-0664	A					25	1	25						
9. Engineering Support for GL3200 budget line									29	1	29	25	1	25
TOTAL						1196			1201			1182		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHs / 2 / Weapons and Other Combat Vehicles												PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	739.7	4.9	6.1	5.1	4.5	5.2	5.4	4.8	5.5	5.7	0.0	786.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	739.7	4.9	6.1	5.1	4.5	5.2	5.4	4.8	5.5	5.7	0.0	786.9	
Initial Spares													
Total Proc Cost	739.7	4.9	6.1	5.1	4.5	5.2	5.4	4.8	5.5	5.7	0.0	786.9	
Flyaway UIC													
Wpn Sys Proc UIC													

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

Justification: The FY01 request includes essential funding for replacement of equipment & instrumentation in production test facilities at Aberdeen, Yuma Proving Grounds, and White Sands Missile Range (WSMR) and layaway and excess individual items of Industrial Plant Equipment which is excess to production requirements at Rock Island and Watervliet Arsenal. Funds will also be used to provide preservation for Government-owned equipment and real property facilities to allow subsequent cost-effective Operation and Maintenance, Army storage.

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat		P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (WOCV- WTCV) (GC0050)		Weapon System Type:		Date: February 2000		
ID	CD	FY 98		FY 99		FY 00		FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Cost Elements										
Provides funds to replace, modernize and upgrade equipment and instrumentation used in production testing of Wpns & Trkd Cmbt Vehs. Upgrading will be performed on automotive performance test equipment, vehicle dynamics, high speed imaging, interior exterior ballistics support inst, and toxic fumes instrumentation at Abdereen Test Center, White Sands Missile Range, and Yuma Proving Ground.				3451			2894		3482	
69X7667 LIF, Rock Isl & Watervliet Arsenal Provides funds for Layaway and Redistribution of Government-Owned equipment and preservation of equipment to include portions of plants which are no longer required for active production, but must be retained for future use. Also provides for plant clearance/preparation of equipment to be excessed.				1689			1652		1670	
TOTAL				5140			4546		5152	

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF WPINS & TRKD CMBT VEHs / 2 / Weapons and Other Combat Vehicles											INDUSTRIAL PREPAREDNESS (GC0075)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	49.1	4.8	2.9	3.0	3.1	3.6	4.2	3.2	2.7	2.7	0.0	79.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	49.1	4.8	2.9	3.0	3.1	3.6	4.2	3.2	2.7	2.7	0.0	79.4
Initial Spares												
Total Proc Cost	49.1	4.8	2.9	3.0	3.1	3.6	4.2	3.2	2.7	2.7	0.0	79.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides funding to retain, protect, and maintain laidaway reserve industrial plants and equipment. Costs include grounds, utilities, fire and guard protection. Also includes funding for condition assessments of laidaway facilities and costs to rehabilitate equipment to useable condition.

JUSTIFICATION: The FY01 request supports the equipment and facilities at Rock Island Arsenal, Watervliet Arsenal, and Hawthorne Army Depot. It includes the overhead costs attributed to the laidaway portions of the Arsenal. Funds will also be used for the storage and maintenance costs of equipment which has been laidaway for future production.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles												SMALL ARMS (SOLDIER ENH PROG) (GC0076)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	2.4	5.2	4.5	2.4	5.1	3.5	0.3	2.0	2.4	1.9	0.0	29.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	2.4	5.2	4.5	2.4	5.1	3.5	0.3	2.0	2.4	1.9	0.0	29.7	
Initial Spares													
Total Proc Cost	2.4	5.2	4.5	2.4	5.1	3.5	0.3	2.0	2.4	1.9	0.0	29.7	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This program provides small arms equipment for the soldier. Funding identified in FY00/FY01 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 (GMC) and M2 Heavy Barrel MG; an M197 HMMWV Mount (consisting of a pintle adapter, pintle, and travel lock) which provides the capability to mount either the 7.62mm M240B or the 5.56mm M249MG on the existing weapon station of the Armament HMMWV; an M203 Enhanced Fire Control Device which provides a reliable, man-portable interface/platform capable of allowing the soldier to utilize the weapon system to achieve significantly increased first round probability of hit on point and area targets at the maximum effective range of the system; a Sniper Accessory Kit that will contain a hand held wind meter, a low profile bipod, a polarized filter for a day scope, a compact cleaning kit and an adjustable cheek piece to steady the soldiers aim (all are available as non-developmental items); the Fire Support Team Vehicle (FISTV) and the Improved TOW Vehicle (ITV) are currently equipped with a weapon mount which accepts the M60 MG (which is being replaced by the M249 MG which does not fit into the existing FISTV/ITV weapon mount). The M249 Mounting Kit for the FISTV/ITV will provide an expedient method to convert the existing weapon mount to accept the M249 MG.

JUSTIFICATION: The Dual Mount will be fielded to scout platoons enabling them to install or switch weapons quickly in the event one vehicle goes down. Quantities have been increased to allow fielding to Infantry Anti-Armor and Military Police units. The system corrects the shortcomings of the current MK64 system allowing for bold and accurate traverse and elevation, further range (elevation) for the MK19, recoil attenuation of the M2 MG and capability for range card preparation. The M197 HMMWV Mount allows quick mounting of either the M240B or the M249 MG without tools and permits improved operator control of the weapon in both traverse and elevation. The M203 Fire Control Device will make the M203 weapon system quicker and more accurate to use, save ammunition and subject the user to less counterfire. The Soldier Enhancement program (SEP) was established by Congress to provide essential equipment for the individual soldier such as the Sniper Accessory Kit. Tasks under SEP are accomplished in an expedient manner. The M249 Mounting Kit for the FISTV/ITV enables the existing weapon mount to readily accept the M249MG to replace the M60 MG.

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles		Weapon System Type:			P-1 Line Item Nomenclature: SMALL ARMS (SOLDIER ENH PROG) (GC0076)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	RFP Issue Date
HMMWV Mount / FY99 M6 Pedestal M197 Mount	Ramo Manufacture Inc., Nashville, TN Ma-Tech Inc, Hebron, Va	C/FFP (Option) SS/8A	ARDEC TACOM-RI	Jul-99 Mar-00	Mar-00 Oct-00	180 3130	1		
HMMWV Mount / FY00 M6 Pedestal M197 Mount	TBS TBS	C/FFP C/FFP	ARDEC TACOM-RI	Jul-00 Jun-00	Mar-01 Mar-01	500 2230	2		Mar 00
Dismount Kits/FY98	FNMI, Columbia, SC	SS/FFP	TACOM-RI	Sep-98	Jul-99	2000	1		
Dual Mount / FY98	TBS	C/FFP	TACOM-RI	Mar-00	Dec-00	1240	1		
Dual Mount / FY99	TBS	C/FFP	TACOM-RI	Mar-00	Mar-01	19	1		
Dual Mount / FY00	TBS	C/FFP	TACOM-RI			163	1		
M203/M4 Fire Control / FY01	TBS	C/FFP	ARDEC	Jan-01	Dec-01	2343	1		Oct 00
Sniper Accessory Kit / FY01	TBS	C/FFP	ARDEC	May-01	Oct-01	1062	1		Jun 00
FISTV/ITV Mount / FY00	TBS	C/FFP	ARDEC	Jun-00	Jan-00	2000			Mar 00
REMARKS:									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF WPNS & TRKD CMBT VEHS / 3 / Spares and Repair Parts												SPARES AND REPAIR PARTS (WTCV) (GE0150)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	25.6	20.2	16.1	20.1	22.7	29.1	36.9	36.0	33.4	33.4	243.6	517.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	25.6	20.2	16.1	20.1	22.7	29.1	36.9	36.0	33.4	33.4	243.6	517.1	
Initial Spares													
Total Proc Cost	25.6	20.2	16.1	20.1	22.7	29.1	36.9	36.0	33.4	33.4	243.6	517.1	
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. Initial spares breakout:													
		FY99	FY00	FY01									
BFVS		7.1	9.1	11.5									
M88A1E1 (Hercules)		0	0	2.8									
HAB (Wolverine)		0.9	1.3	0									
ABRAMS Upgrade		9.7	9.7	14.8									
Cmd & Ctrl Veh (C2V)		2.4	2.6	0									
TOTAL		20.1	22.7	29.1									