Missiles ... PFORMS

Item	Item	Item	Item	Item	Item
20648139	21243115	22684147	24094147	26472139	28600147
20649139	21338139	22690147	24662144	26552139	
20962121	21512147	23902147	25900139	26800139	
21242107	22104139	23972139	26100139	26810139	

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other Mi	ssiles					JAVELIN (AAW	/S-M) SYSTEM SUM	MARY (CC0007)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	703	872	1010	1020	894	3316	5458	5403	7038			25714
Gross Cost	224.5	210.0	200.9	160.0	148.2	345.6	454.2	397.7	460.4	73.0	80.7	2755.2
Less PY Adv Proc	18.3				9.1	25.6						53.0
Plus CY Adv Proc	18.3			34.7								53.0
Net Proc (P-1)	224.5	210.0	200.9	194.8	139.1	320.0	454.2	397.7	460.4	73.0	80.7	2755.2
Initial Spares						4.7	4.7	6.7	7.9	8.1	16.0	48.1
Total Proc Cost	224.5	210.0	200.9	194.8	139.1	324.7	458.9	404.4	468.3	81.1	96.7	2803.3
Flyaway U/C	315.4	229.0	188.6	140.7	136.6	99.8	77.3	68.8	63.2			
Wpn Sys Proc U/C	320.1	243.8	198.9	156.9	140.9	106.2	85.4	75.8	67.6			

DESCRIPTION: This project provides procurement funds for JAVELIN, the medium antitank system for infantry, scouts and combat engineers. These forces must have the capability to defeat numerically superior armored forces. The JAVELIN, a replacement for the DRAGON, is a medium range, manportable antitank system for use in all forms of maneuver operations. It can be delivered by individual paratrooper, door bundle, tracked/wheeled vehicles, rail, ship and air. This system has a high kill rate against all known armor threats at extended ranges under day/night, adverse weather and battlefield obscurant conditions. The system's soft launch permits firing from a fighting position or from an enclosure. JAVELIN is hardened against countermeasures and does not require extensive training for effective employment. The Command Launch Unit (CLU) is reusable and consists of a target acquisition device, Built-in-Test (BIT), a trigger mechanism, and appropriate interfaces. The round includes a missile encased in a disposable launch tube assembly. Attached to the launch tube are CLU mating connector, front and rear shock attenuators, removable front end cap, as well as a replaceable battery coolant unit (BCU), an adjustable replaceable shoulder strap, and a replaceable desiccant. JUSTIFICATION: The operational concept envisioned for fighting the antiarmor battle requires an effective, extended range, manportable, fire-and-forget, weapon for dismounted combat forces. JAVELIN's fire-and-forget technology allows the gunner to fire and immediately take cover, move to another fighting position, or reload. The JAVELIN provides enhanced lethality over the DRAGON through the use of a tandem warhead which will defeat all known armor threats. It is effective against stationary and moving targets. The JAVELIN is capable of operating at 2.5 times the range (2500m) of the DRAGON with a day/night integrated sight, capable of target acquisition in adverse weather and through battlefield obscurant conditions. This system will have a secondary mission of destroying bunkers and will provide defensive capability against hovering helicopters. The CLU can be used in a stand-alone mode for battlefield surveillance and target selection. There were 3605 rounds procured through FY1997. Another 894 are scheduled for procurement in FY1998 under the second year award of a three-year multiyear contract, and 3316 in FY1999, the final year of the multiyear contract. 17,899 are planned for purchase in subsequent years, with a second three-year multiyear contract FY00-02. Quantities have changed since the FY1998 submission because 186 All Up Rounds (AUR) were reduced from the Army quantity and the USMC will procure them.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
Missiles Cost Analysis		MISSILE PROCU	REMENT/	2 / Other Missiles		JAVELIN	(AAWS-M) SYST	EM SUMMARY				Feb	ruary 1998
·							(CC0007)						
Missiles	ID		FY 96			FY 97			FY 98	1		FY 99	ı
Cost Elements	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
Missile Hardware- Recurring All Up Round		123220	1010	122	80232	1020	79	70874	900	79	260658	3316	79
Engineering Services		14298	1010	122	12193	1020	73	2545	300	7.5	2134	3310	7.5
Engineering Change Orders		2878			2309			2055			5940		
Acceptance Testing		5450			4140			3450			3434		
Fielding		1532			1000			1115			1051		
SubTotal Missile Hardware		147378			99874			80039			273217		
Procurement Support		147570			33014			00033			273217		
Government Project Management		5391			5643			5223			6280		
Government Production Engineering		3652			3902			3344			3277		
Publications/Technical Data		577			407			329			416		
SUBTOTAL		9620			9952			8896			9973		
Total Flyaway		156998			109826			88935			283190		
Command & Launch Hardware													
Command Launch Unit		25056	108	232	26065	206	127	46671	368	127	41425	325	127
Engineering Services		3005	100	202	3553	200		615	000		452	020	
Engineering Change Orders		818			665			636			498		
Fielding		4588			3751			1350			948		
SubTotal C&L Hardware		33467			34034			49272			43323		
Training Devices		7000	- 1	404	40.400	400	405	70.10	7.5	405	45470		405
Field Tactical Trainer - Student Station		7062	54	131	13490	129	105	7843	75	105			105
Field Tactical Trainer -Instructor Station		943	23	41	318	13 15	24	391	16 13	24	808		24 130
Basic Skills Trainer Missile Simulation Round		2136	16	134	1950	174	130	1684	80	130	2479	19 333	130
		252 10393	126	2	425 16183	174	2	120 10038	80	2	623 19088		2
SubTotal Training Devices		10393			10103			10036			19000		
Gross P-1 End Cost		200858			160043			148245 9104			345601 25613		
Less: Prior Year Adv Proc Net P-1 Full Funding Cost		200858			160043			9104 139141			25613 319988		
Plus: P-1 CY Adv Proc		∠00638			34717			139141			319988		
Other Non P-1 Costs					34/1/								
Initial Spares											4703		
Mods											4703		
TOTAL		200858			194760			139141			324691		
		200000			.5.700			.00141			02.301		

	Exhibit P-5a, Budget Procuremen	nt History a	and Planning					Date:	February ²	1008
ppropriation / Budget Activity/Serial No:	Exhibit 1 -Ja, Buaget 1 Total elliel	Weapon Syst			P-1 Line Item	Nomenclature	:		Column	1330
MISSILE PROCUREMENT / 2 / Other Missile	es						VS-M) SYSTEM SU	JMMARY	(CC0007))
BS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Is:
scal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
II Up Round										
Y 96	Joint Venture TI/MM*	SS/FP	AMCOM	Feb-96	Mar-98	1010	122			
Y 97	Joint Venture TI/MM*		AMCOM	May-97		1020	79			
Y 98	Joint Venture TI/MM*		AMCOM	Dec-97	Oct-00	894	79	Yes		
Y 99	Joint Venture TI/MM*		AMCOM	Dec-98		3316	79			
ommand Launch Unit										
Y 96	Joint Venture TI/MM*	SS/FP	AMCOM	Feb-96	Oct-98	108	232			
Y 97	Joint Venture TI/MM*		AMCOM	May-97		206	127			
Y 98	Joint Venture TI/MM*		AMCOM	Dec-97		368	127	Yes		
Y 99	Joint Venture TI/MM*		AMCOM	Dec-98		325	127	Yes		

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	1	FY 97	Α	206	0	206								Α																	206
	1	FY 97	MC	48	0	48																									48
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		Exhibit	P-43, Sim	ulator and	d Training	Device J	lustification	on		February 1998	
Appropriation / Budget A	Activity/Serial No.			P-1 Item Nomencla	ature			Other Related Prog	ram Elements:		IOC Date:
MISSILE F	PROCUREMENT / 2 / Other	Missiles		JAVELIN (AAW	S-M) SYSTEM SUM	MARY (CC0007)					
Training Device by		-	Ready for								
Туре	Site	Date	Training Date	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
FTT-SS	Orlando,FL	Oct-00	Nov-00	54/\$7062	129/\$13490	75/\$7843	144/\$15178	405/\$32805	365/\$29389	300/\$24150	135/\$10955
FTT-IS	Orlando,FL	Oct-00	Nov-00	23/\$943	13/\$318	16/\$391	33/\$808	57/\$1083	60/\$1112	146/\$2701	175/\$3397
BST	Orlando,FL	Oct-00	Nov-00	16/\$2136	15/\$1950	13/\$1684	19/\$2479	25/\$2625	25/\$2615	83/\$8674	61/\$6398
MSR	Ft Benning,GA	Oct-00	Nov-00	126/\$252	174/\$425	80/\$120	333/\$623	625/\$1041	653/\$1033	605/\$1135	169/\$284

- 1. Field Tactical Trainer Student Station This item is used to teach force-on-force tactics and practice tasks to prepare for the US Army Training Evaluation Program and US Marine Corps Readiness Evaluation System.
- 2. Field Tactical Trainer Instructor Station This item is used in a traditional outdoor range environment at the institution and unit level to refine the basic individual skills required to operate the JAVELIN and for qualification training.
- 3. Basic Skills Trainer This item is used for development and retention of tactical and technical gunnery skills. Training is conducted in both the institution and unit level.
- 4. Missile Simulation Round This item is a three-dimensional full-size replica, nonoperational mock-up of the JAVELIN tactical round. It is capable of attachment to a tactical command launch unit. It will be used to practice handling and assembly/disassembly procedures with the command launch unit. Additionally, it will be used in field handling and mobilization tactical deployment exercises.

								Date:				
		Exhibit P-4	10, Budget	ltem Justific	ation Sheet					February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:	•				
	MISSILE PROCURE	MENT / 2 / Other M	lissiles					JAVELIN (A	AWS-M) (ADV PRO	C) (CC0007)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	1 5	E)/ 1005	F)/ 4000	E)/ 1007	F) (1000	F)/ 4000	F)/ 2000	F)/ 0004	F)/ 2222	57/0000	T = 0 1 1 1	T. 15
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost												0.0
Less PY Adv Proc	18.3				9.1	25.6						53.0
Plus CY Adv Proc	18.3			34.7								53.0
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Initial Spares												
Total Proc 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
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: These advance procurement funds will provide economic order quantities for year two and year three of the Javelin three-year multiyear procurement Javelin is a medium antitank system for infantry, scouts, and combat engineers. These forces must have the capability to defeat numerically superior armored forces The Javelin, a replacement for the Dragon, is a medium range, manportable antitank system for use in all forms of maneuver operations. It can be delivered by individual paratrooper, door bundle, tracked/wheeled vehicles, rail, ship and air. This system has a high kill rate against all known armor threats at extended ranges under day/night, adverse weather and battlefield obscurant conditions. The system's soft launch permits firing from a fighting position or from an enclosure. The Ji is hardened against countermeasures and does not require extensive training for effective employment.

Advance Procurement will buy parts and materials in support of the All Up Round, Command Launch Unit (CLU), the Basic Skills Trainer, Field Tactical Trainer (FTT) Instructor Station, and the FTT-Student Station. The leadtime for these items is 12-18 months.

		Exhibit P-4	I0, Budget	Item Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/						P-1 Item Nomencla	ture:					
	MISSILE PROCUREMEN	NT / 3 / Modification	of Missles					P.A	ATRIOT MODS (C507	700)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	353.4	25.7	6.8	23.3	7.8	15.3	26.4	29.3	19.2	15.4	180.9	703.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	353.4	25.7	6.8	23.3	7.8	15.3	26.4	29.3	19.2	15.4	180.9	703.5
Initial Spares	34.9	6.2	3.4	5.2	2.7	4.9	3.7	2.7	0.8		25.3	89.8
Total Proc Cost	388.3	31.9	10.2	28.5	10.5	20.2	30.1	32.0	20.0	15.4	206.2	793.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The PATRIOT Weapon System Growth Program is in response to a Report of the Defense Science Board Task Force on PATRIOT Vulnerability (1978) (SECRET) and the Air Threat to Central Europe (1978-1988) ATCE-1988 (SECRET) dated 1 Aug 78, and was part of the Mid 1980 Army System Acquisition Review Council/Defense System Acquisition Review Council (ASARC/DSARC) process approving the initiation of PATRIOT production.

JUSTIFICATION: The above funding is required to support the planned system Growth Program P3I (Pre-planned Product Improvements), anticipated Materiel Changes which will add the following hardware enhancements/improvements to the PATRIOT Weapon System. Modification installation costs are included in the cost of the modification kits.

Fiscal Years FY96 & PRI 0.0 10.2 ide 56.0	Code FY 1997 0.0 11.1 0.0 0.3	0.4	FY 1999 8.8 0.0	FY 2000 12.1 0.0 0.0	FY 2001 14.6 0.0	FY 2002 14.7 0.0	FY 2003 11.6 0.0 0.0	0.0
Fiscal Years FY96 & PR 0.0 10.2 de 56.0	FY 1997 0.0 11.1	FY 1998 2.9 0.4 0.0	FY 1999 8.8 0.0	12.1	FY 2001 14.6 0.0	FY 2002 14.7 0.0	FY 2003 11.6 0.0	54.9 0.0
9.0 0.0 10.2 de 56.0	FY 1997 0.0 11.1	FY 1998 2.9 0.4 0.0	FY 1999 8.8 0.0	12.1	14.6	14.7	11.6	54.9 0.0
9.0 0.0 10.2 de 56.0	0.0 11.1 0.0	2.9 0.4 0.0	8.8 0.0 0.0	12.1	14.6	14.7	11.6	54.9 0.0
0.0 10.2 ide 56.0	0.0 11.1 0.0	2.9 0.4 0.0	8.8 0.0 0.0	12.1	14.6	14.7	11.6	54.9 0.0
10.2 de 56.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	54.9 0.0 0.0
10.2 de 56.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
de 56.0	0.0	0.0	0.0					
de 56.0	0.0	0.0	0.0					
56.0				0.0	0.0	0.0	0.0	0.0
				0.0	0.0	0.0	0.0	0.0
3.8	0.3	0.0	0.0					
3.8	0.3	0.0	0.0					
			0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	4.5	6.5	7.0	9.0	4.5	3.8	126.0
0.0	6.1	0.0	0.0	4.7	3.1	0.0	0.0	0.0
0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	2.6	2.6	0.0	0.0	0.0
70.0	23.3	7.8	15.3	26.4	29.3	19.2	15.4	180.9
	0.0	0.0 5.8 0.0 0.0	0.0 5.8 0.0 0.0 0.0 0.0	0.0 5.8 0.0 0.0 0.0 0.0 0.0 0.0	0.0 5.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.6	0.0 5.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.6 2.6	0.0 5.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.6 2.6 0.0	0.0 5.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.6 2.6 0.0 0.0

Total 119.6 21.7 56.0 4.1 161.3 13.9 5.8 5.2 387.6

INDIVIDUAL MODIFICATION Date February 1998

MODIFICATION TITLE: RLCEU 1-92-03-1233

MODELS OF SYSTEMS AFFECTED: Radar, ECS, CRG

DESCRIPTION / JUSTIFICATION:

The Remote Launch/Communication Enhancement Upgrade (RLCEU) effort focuses on improving communications at the "below" battalion level through the introduction of new switching equipment and a new communications processor at the battery level in conjunction with a conversion to Band IV UHF throughout the battalion. Additionally, the project will develop and field a remote launch capability permitting emplacement of a remote launcher farm in excess of 30 Km from the parent Engagement Control System (ECS). This project is required to meet PAC-3 requirements for increased battlespace, lethality and rate of fire; additionally Operational Requirement Document (ORD) requirements for interoperability and communications are satisfied by this effort.

DEVELOPMENT	STATUS / MA	JOR DE	/ELOPM	1ENT M	ILESTO	DNES:														
										<u>Planne</u>	d	Acc	ompli	shed						
	Prelim	inary D	esign F	Reviev	N					2QF	Y96		3QF	Y96						
		Design								4QF\	′ 96		4QFY	′ 96						
		ctor Te		•	,	(CTE)				3QFY	98									
		pment				,	E)			4QFY	98									
							ı (İOTE)			2QFY										
Installation Sched	dule:																			
	Pr Yr		FY 199	7			FY 1998			FY 199	9			FY 200	00			FY 20	01	
	Totals	1	2	3	4	1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs													8		4	4	7	2	6	3
Outputs														4	4	4	4	4	5	3
		FY 20	02			FY 200	3		FY 20	004			FY 20	05			То		To	tals
	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	Con	nplete			
Inputs			4	2			5			5						16				66
Outputs	3	3		4	2		3	2			3	2				16				66
METHOD OF IMP	PLEMENTATION	ON:			Al	DMINIST	RATIVE LE	ADTIME:		3 Mc	nths	Р	RODUC	TION LE	EADTIN	ИЕ :	18 N	Nonths		
Contract Dates:		F`	Y 1997				FY 199	98 2	Q98			F	Y 1999	2Q99						
Delivery Date:		F`	Y 1997				FY 199	98 4	Q99			F	Y 199 99	9 40	200					

					IND	IVIDUA	L MODI	FICATIO	N							Date		Februa	ary 1998	
MODIFICATION TITLE (Cont):		RL	CEU	1-92-03	3-1233															
FINANCIAL PLAN: (\$ in Millions)			-																	
		1996		1007	FV 4	000	- - - - - - - - - -	1000	E)//	2000		2004	-	0000		0000			TO 1	· A I
	Qty	Prior	Qty	1997 \$	FY 1 Qty	998 \$	Qty	1999 \$	Qty	2000 \$	Qty	2001 \$	Qty	2002 \$	Qty	2003	Qty	C \$	TOT Qty	AL \$
RDT&E	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ
PROCUREMENT																				
Kit Quantity					8	2.6	17	8.0	9	11.0	6	13.3	5	13.4	5	10.5	16	49.9	66	108.7
Installation Kits						2.0	.,	0.0	3	11.0	J	10.0	3	10.4	l	10.5	10	45.5	00	100.7
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits					8	0.3													8	0.3
FY 1999 Eqpt Kits							17	0.8											17	3.0
FY 2000 Eqpt kits									9	1.1									9	1.1
FY 2001 Eqpt kits											6	1.3							6	1.3
FY 2002 Eqpt kits													5	1.3					5	1.3
FY 2003 Eqpt kits															5	1.1			5	1.1
TC Equip-Kits								_									16	5.0		5.0
Total Installment					8	0.3	17	0.8	9	1.1	6	1.3	5		5		16	5.0		10.9
Total Procurement Cos						2.9		8.8		12.1		14.6		14.7	<u> </u>	11.6		54.9		119.6

INDIVIDUAL MODIFICATION Date February 1998

MODIFICATION TITLE: Block VII 1-88-03-1224

MODELS OF SYSTEMS AFFECTED: Radar, ECS, ICC, LS, BME, BMG, CRG

DESCRIPTION / JUSTIFICATION:

This modification provides corrections to problems in the field which have been identified and incorporated into ECPs. Corrections included in this Materiel Change involve improvements to the Radar, Engagement Control Station (ECS), Information and Coordination Central (ICO), Launching Station (LS), Battalion Maintenance Equipment/Group (BME/BMG), Communications Relay Group (CRG) and ISE/PFASC Shop Sets. The purpose of this MC is the acquisition and installation of retrofit modification kits to bring fielded PATRIOT hardware up to the production baseline configuration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Major milestones not applicable.

nstalia	ition	Scn	eau	ie:

Inputs	
Outputs	

Pr Yr		FY 1	1997			FY 1	1998			FY [']	1999			FY:	2000			FY	2001	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
197	28	28	17	17	17	18	10													
169	28	28	28	17	17	17	18	10												

		FY 2	2002				FY 2	2003			FY 2	004			FY:	2005		То	Totals
	1	2	• •	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																			332
Outputs																			332

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months

Contract Dates: FY 1997 Dec 96 FY 1998 Dec 97 FY 1999

Delivery Date: FY 1997 Jun 97 FY 1998 Jun 98 FY 1999

					IN	DIVIDUA	L MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Blo	ock VII	1-88-0	03-122	24														
FINANCIAL PLAN: (\$ in Millions)			Ī																	
		1996 I Prioi	FY ·	1997	FY	1998	FY	1999	FY	2000	FY	2001	FY	2002	FY	2003	-	ГС	TOT	ΔΙ
	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	253	6.6	69	10.8	10	0.3													332	17.7
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits	253	3.6	69	0.3	10	0.1													253 69 10	3.6 0.3 0.1
Total Installment	253	3.6	69	0.3	10	0.1				_									332	4.0
Total Procurement Cos		10.2		11.1		0.4														21.7

INDIVIDUAL MODIFICATION Date February 1998 Weapon Control Computer (WCC) Upgrade 1-88-03-1227 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: ECS. ICC DESCRIPTION / JUSTIFICATION: This task's objective is to increase (by four times) the speed and memory size of the current Weapon Control Computer (WCC) through replacement with a Very High Speed Integrated Circuit (VHSIC) WCC. The current WCC in the Engagement Control Station (ECS) and Information and Coordination Central (ICC) will be replaced by the VHSIC WCC. Peripheral devices which will permit the full utilization c expanded WCC will be implemented by the replacement of the current Recovery Storage Unit (RSU) and the Mass Storage Unit (MSU) with an optical disk. This MC requires WCC software enhancements to be blocked with others in a Post Deployment Build 4 (PDB-4). The modification will increase central processing speed throughout and available memory. Current RAM hardware usage is at 95% eliminating future growth. VHSIC technology and expanded memory will accommodate future throughput and growth. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Planned Accomplished Preliminary Design Review 4QFY90 4QFY90 Critical Design Review (CDR) 2QFY91 2QFY90 Contractor Test and Evaluation (CTE) 1QFY92 1QFY92 Development Test and Evaluation (DTE) 2QFY92 3QFY92 Installation Schedule: Pr Yr FY 1998 FY 2001 FY 1997 FY 1999 FY 2000 **Totals** Inputs 110 Outputs 110 FY 2003 FY 2004 FY 2005 То FY 2002 Totals 3 Complete Inputs 110 Outputs 110 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months FY 1998 FY 1999 Contract Dates: FY 1997 Delivery Date: FY 1997 FY 1998 FY 1999

					IN	DIVIDUA	L MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		W	eapor	Contro	ol Con	nputer	(WCC) Upgra	ade 1-	88-03-	1227									
FINANCIAL PLAN: (\$ in Millions)																				
		1996 Prioi	FY	1997	FY	1998	FY	1999	FY	2000	FY	2001	FY	2002	FY	2003	Т	C	TOT	ΔΙ
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT	-	27.2	•																	27.2
Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support	110	49.9																	110	49.9
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits	110	6.1																	110	6.4
Total Installment	110	6.1																	110	6.
Total Procurement Cos		56.0																		56.0

					INDI	VIDUAL MO	DIFICATIO	N							Date		Febru	ary 1998	
MODIFICATION T	TI F. CDI	Phase I	1-92-03	3-1235															
MODELS OF SYS	STEMS AFFE	CTED: Rad	ar																
DESCRIPTION / J	JUSTIFICATIO	N:																	
Provides im providing be								ir defe	nse ef	fective	ness	by re	ducir	g the	poten	tial fo	r fratri	cide a	nd
DEVELOPMENT	Prelimi Critical Contra	JOR DEVE nary Des Design F ctor Test pment Te	ign Re [,] Review and Ev	view (CDR) aluation	n (CTE	,		E	lanne 4QF 3QF) 2QFY 2QF)	Y90 /91 /92	4Q 3Q	olishe QFY9 PFY92 FY94	1 I						
Installation Sched				-							ı				-				
	Pr Yr Totals	F	Y 1997	3 4	1	FY 1998 2	3 4	1	FY 19	999	4	1	FY 2	2000 3	4	1	FY 2	2001 3	
Inputs Outputs	15 13	2 2	2	2 2			0 4							J	7	'		J	
		FY 2002			FY 20	003		FY 20	004			FY 20	005			То			Totals
	1	2	3 4	4 1	2		4 1	2	3	4	1	2	3	4	Co	omplete			
Inputs Outputs																			2
METHOD OF IMP	PLEMENTATION	ON:		ı	ADMINIS	STRATIVE L	EADTIME:		6 N	/lonths	P	RODU	CTION	LEADT	IME:	6	Months	i	
Contract Dates:		FY 1	997	Nov 96		FY 19	998					Y 1999							
Delivery Date:		FY 1	997	May 97		FY 19	998				F`	Y 1999)						

					IN	IDIVIDUA	AL MOD	IFICATIO	N							Date		Febru	uary 1998	
MODIFICATION TITLE (Cont):		CI	Ol Pha	se I 1-9	92-03-	1235														
FINANCIAL PLAN: (\$ in Millions)																				
		1996																		
		l Prior		1997		1998		1999		2000		2001		2002		2003		C	TOTA	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		14.6																		14.6
PROCUREMENT			_																	
Kit Quantity	19	3.1	2	0.2															21	3.3
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Landa Hadia a a Chilanda a a a																				
Installation of Hardware	10	0.7																	10	0.7
FY 1996 & Prior Eqpt Kits	19	0.7	2	0.4															19	0.7 0.1
FY 1997 Eqpt Kits			2	0.1															2	0.1
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
TC Equip-Kits	10	0.7		0.4															21	0.0
Total Installment Total Procurement Cos	19	0.7 3.8		0.1			1		1										21	0.8 4.1
iolai Fioculeillelli COS		ა.ი		0.3			<u> </u>		<u> </u>											4.1

INDIVIDUAL MODIFICATION Date February 1998

MODIFICATION TITLE: Block VIII (RAM Mods) 1-89-03-1230

MODELS OF SYSTEMS AFFECTED: Radar, ECS, ICC, LS, BME, BMG, CRG

DESCRIPTION / JUSTIFICATION:

This modification provides corrections to problems in the field which have been identified and incorporated into ECPs. Corrections included in this modification involve improvements to the Radar, Engagement Control Station (ECS), Information and Coordination Central (ICC), Launching Station (LS), Battalion Maintenance Equipment/Group (BME/BMG), Communications Relay Group (CRG) and Intermediate Support Elements/Patriot Field Army Suport Center (ISE/PFASC) Shop Sets. The purpose of this modification is the acquisition and installation of retrofit modification kits to bring fielded PATRIOT hardware up to the production baseline configuration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Major milestones not applicable.

Installation	Schedule:
--------------	-----------

Inputs Outputs

Pr Yr		FY '	1997			FY	1998			FY 1	999			FY 2	2000			FY	2001	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
							32	32	32	31	53	53	53	52	93	92	92	92	103	103
								32	32	32	31	53	53	53	52	93	92	92	92	103

		FY 2	002			FY 2	003			FY 2	004			FY 2	2005		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		Complete	
Inputs	103	102	57	56	56	56	50	50	50	50	75	75	75	75	75	75	2550	4543
Outputs	103	103	102	57	56	56	56	50	50	50	50	75	75	75	75	75	2625	4543

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months

 Contract Dates:
 FY 1997
 FY 1998
 Dec 97
 FY 1999
 Dec 98

 Delivery Date:
 FY 1997
 FY 1998
 Jun 98
 FY 1999
 Jun 99

					IN	DIVIDUA	L MODI	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Ble	ock VI	II (RAN	1 Mods	s) 1-89-	03-12	:30												
FINANCIAL PLAN: (\$ in Millions)	EV	1996	1																	
		1996 I Prioi	FY	1997	FY	1998	FY	1999	FY	2000	FY	2001	FY	2002	FY	2003	Т	С	TOT	ΆΙ
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E											-									
PROCUREMENT																				
Kit Quantity					127	4.1	211	5.9	369	6.3	411	8.1	225	4.1	200	3.5	3000	113.4	4543	145.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits					127	0.4													127	0.4
FY 1999 Eqpt Kits					127	0. 1	211	0.6											211	0.6
FY 2000 Eqpt kits								5.0	369	0.7									369	0.7
FY 2001 Eqpt kits											411	0.9							411	0.9
FY 2002 Eqpt kits													225	0.4					225	0.4
FY 2003 Eqpt kits															200	0.3			200	0.3
TC Equip-Kits																	3000	12.6		12.6
Total Installment					127	0.4	211	0.6	369	0.7	411	0.9	225	0.4	200	0.3		12.6		15.9
Total Procurement Cos						4.5		6.5		7.0		9.0		4.5		3.8		126.0		161.3

INDIVIDUAL MODIFICATION Date February 1998 Integrated Diagnostic Support System 1-97-03-1244 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: DESCRIPTION / JUSTIFICATION: At the fire unit level, maintenance monitors detect faults and automatically access diagnostic/repair procedures in electronic Tech Manuals (TM) and expert systems. Digital communications enable secure telemaintenance from weapons platform to factory for remote diagnostics and adjustments. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable. Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 7 Inputs Outputs 7 FY 2002 FY 2003 FY 2004 FY 2005 То Totals Complete Inputs 19 Outputs 19 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: Months Contract Dates: FY 1997 Feb 97 FY 1998 FY 1999 Delivery Date: FY 1997 Oct 97 FY 1998 FY 1999

					IN	IDIVIDU	AL MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Int	egrate	d Diag	nostic	Supp	ort Sys	stem 1	-97-03	-1244										
FINANCIAL PLAN: (\$ in Millions)	FY	1996	1																	
		d Prior	FY	1997	FY	1998	FY	1999	FY	2000	FY	2001	FY	2002	FY	2003		ГС	TOTA	۸L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity			7	5.9					7	4.5	5	3.0							19	13.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment Support Equipment																				
Other																				
Interim Contractor Support																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits			_	0.0																0.0
FY 1997 Eqpt Kits			'	0.2															7	0.2
FY 1998 Eqpt Kits FY 1999 Eqpt Kits																				
FY 1999 Eqpt kits FY 2000 Eqpt kits									7	0.2									7	0.2
FY 2000 Eqpt kits									l '	0.2	5	0.1							5	0.2
FY 2002 Eqpt kits												0.1								0.1
FY 2003 Eqpt kits																				
TC Equip-Kits																				
Total Installment			7	0.2					7	0.2	5	0.1					1		19	0.5
Total Procurement Cos				6.1						4.7		3.1								13.9

MODELS OF SYSTEMS AFFECTED: PAC-2 Missile DESCRIPTION / JUSTIFICATION: Modification of existing PAC-2 missiles. Provides Cruise Missile Defense performance improvements by retrofitting PAC-2 missiles during missile recertification cycle with a Surface Acoustic Wave (SAW) Oscillator and a Guidance Enhanced Missile (GEM) fuze. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable Installation Schedule: Pry 1997 FY 1998 FY 1999 FY 2000 FY 2001 Inputs Outputs PY 2002 FY 2003 FY 2004 FY 2005 To Totals Inputs Outputs PY 2002 FY 2003 FY 2004 FY 2005 To Totals Inputs Outputs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months Contract Dates: FY 1997 Jan 98 FY 1998 FY 1999 PRODUCTION LEADTIME: 18 Months PRODUCTION LEADTIME: 18 Months PRODUCTION LEADTIME: 18 Months PY 1999 FY 1999 PY 2002 FY 2003 FY 2004 FY 2005 To Totals Totals PRODUCTION LEADTIME: 18 Months PRODUCTION LEADTIME: 18 Months							INIDIV	DIIAI MOD	IEIC A TIOI	A.I					5.			1000
MODELS OF SYSTEMS AFFECTED: PAC-2 Missile DESCRIPTION / JUSTIFICATION: Modification of existing PAC-2 missiles. Provides Cruise Missile Defense performance improvements by retrofitting PAC-2 missiles during missile recertification cycle with a Surface Acoustic Wave (SAW) Oscillator and a Guidance Enhanced Missile (GEM) fuze. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable Installation Schedule: Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1				/a.a.	4.0	- 00 4		DUAL WOD	IFICATIO	N .					Date		February	1998
Modification of existing PAC-2 missiles. Provides Cruise Missile Defense performance improvements by retrofitting PAC-2 missiles during missile recertification cycle with a Surface Acoustic Wave (SAW) Oscillator and a Guidance Enhanced Missile (GEM) fuze. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable Installation Schedule: Prince Friday Frid	MODIFICATION TITLE:						245											
Modification of existing PAC-2 missiles. Provides Cruise Missile Defense performance improvements by retrofitting PAC-2 missiles during missile recertification cycle with a Surface Acoustic Wave (SAW) Oscillator and a Guidance Enhanced Missile (GEM) fuze. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable Installation Schedule: PY 1997 PY 1	MODELS OF SYSTEM	IS AFFE	CTED:	PAC-2	Missile													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable	DESCRIPTION / JUST	IFICATIO	ON:															
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable	Modification of	existin	a PAC	C-2 mi	ssiles	. Prov	ides Cru	uise Miss	ile Defe	ense perfor	mance	e impro	ovemen	its by re	rofitting	a PAC	-2 miss	iles durino
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable Installation Schedule: Pryr Fy 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 3 4 1			_											•	•	_		,
Major milestones not applicable Pr Yr			•					`	,						`	,		
Major milestones not applicable Pr Yr																		
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Installation Schedule: Pr Yr	DEVELOPMENT STAT	TUS / MA	AJOR D	EVELO	PMENT	MILES	TONES:											
Installation Schedule: Pr Yr																		
Installation Schedule: Pr Yr	Ma	ajor mi	lestor	nes no	t app	licable												
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FY 2002 FY 2003 FY 2004 FY 2005 To Totals Inputs 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 Complete Inputs 0utputs 75 <t< td=""><td></td><td>Totals</td><td>1</td><td>2</td><td>3</td><td>4</td><td>1</td><td>2 3</td><td>4</td><td>1 2</td><td>3</td><td>4</td><td>1</td><td>2</td><td>3 4</td><td>1</td><td>2</td><td>3</td></t<>		Totals	1	2	3	4	1	2 3	4	1 2	3	4	1	2	3 4	1	2	3
FY 2002 FY 2003 FY 2004 FY 2005 To Totals	Inputs											15	20	20 2	0			
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Inputs Outputs Outputs ADMINISTRATIVE LEADTIME: 6 Months Contract Dates: FY 1997 Jan 98 FY 1998 FY 1999 75 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months FY 1999						.1						. 1			_			Totals
Outputs 75 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months Contract Dates: FY 1997 Jan 98 FY 1998 FY 1999		1	2	3	4	1	2	3 4	1	2 3	4	1	2	3	4 C	omplete		
METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months Contract Dates: FY 1997 Jan 98 FY 1998 FY 1999	-																	
Contract Dates: FY 1997 Jan 98 FY 1998 FY 1999	•	ENITATI	ONI:				V DVAIVILG I	DATIVE LE	A DTIME:	6	Montho	Г	DBODIIC.	TION LEAD		10	Montho	
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	Delivery Date:					Jul 99												

					IN	IDIVIDU	AL MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Ge	em Plu	s/Minu	ıs 1-97	7-03-12	245													
FINANCIAL PLAN: (\$ in Millions)			1																	
		1996 d Prior	FY 1	997	FY	1998	FY	1999	I FY	2000	l FY	2001	FY	2002	l FY	2003	1 7	ГС	TOT	AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity Installation Kits			75	5.3															75	5.3
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other Interim Contractor Support																				
interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt Kits			75	0.5															75	0.5
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits TC Equip-Kits																				
Total Installment			75	0.5															75	0.5
Total Procurement Cos			. 5	5.8			1													5.8

INDIVIDUAL MODIFICATION Date February 1998 RLCEU (LINK 16/JTIDS) 1-97-03-1246 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: ECS DESCRIPTION / JUSTIFICATION: This modification will integrate the hardware required for an M-109 van based Link-16 terminal, terminal control and communications processing equipment required to receive and process the Link-16 Joint Data Net information and to provide this information, in the PADIL Data Link (PADIL) format, to the PATRIOT Engagement Control Station (ECS). This will permit the PATRIOT firing battery to function as a limited participant (receive-only) in the joint net. Told-in tracks will be displayed in the Battery Communications Post and in the Engagement Control Station. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Major milestones not applicable Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 3 4 Inputs 4 Outputs 3 FY 2002 FY 2003 FY 2004 FY 2005 То Totals 3 1 3 Complete Inputs 5 35 Outputs 35 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months

FY 1999

FY 1999

FY 1998

FY 1998

Contract Dates:

Delivery Date:

FY 1997

FY 1997

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
N	IISSILE PROCUREMEN	IT / 4 / Spares and F	Repair Parts					SPARES	AND REPAIR PART	S (CA0250)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	2657.4	34.1	11.5	10.3	11.1	23.7	19.2	25.1	26.2	25.5	41.5	2885.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	11.5	10.3	11.1	23.7	19.2	25.1	26.2	25.5	41.5	194.1
Initial Spares												
Total Proc Cost	0.0	0.0	11.5	10.3	11.1	23.7	19.2	25.1	26.2	25.5	41.5	194.1
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 (SMA) activity of the Defense Business Operations Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:

<u>System</u>	FY 1996	FY 1997	FY 1998	FY 1999
Javelin				4.7
MLRS Launcher	5.1		1.0	6.9
ATACMS		1.0	1.0	
Patriot Mods	3.4	5.2	2.7	4.9
Avenger Mods	1.0			
ITAS/TOW Mods		2.3	5.4	6.6
MLRS Mods	2.0	1.8	1.0	0.6
Total	11.5	10.3	11.1	23.7

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
MISS	ILE PROCUREMENT / 5	/ Support Equipmer	nt and Facilities					AIR DE	FENSE TARGETS (C93000)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	ram Elements:						
						Ī	1		1	1	T .	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	357.9	8.2	6.6	6.2	1.0	2.5	2.4	2.5	2.5	2.5	0.0	392.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	357.9	8.2	6.6	6.2	1.0	2.5	2.4	2.5	2.5	2.5	0.0	392.3
Initial Spares	1.3											1.3
Total Proc Cost	359.2	8.2	6.6	6.2	1.0	2.5	2.4	2.5	2.5	2.5	0.0	393.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Air Defense Targets program provides fixed wing, rotary wing, ballistic and towed targets, target control systems and ancillary equipment for worldwide active Army and reserve component air defense training consisting of guns live fire and precision gunnery system (PGS) training, quality assurance, lot acceptance, production qualification, and first article tests.

During the budget years, only 1/5th scale Remotely Piloted Vehicle Target (RPVT) and ancillary hardware consisting of scoring equipment in support of gun and PGS training will be procured.

JUSTIFICATION:

In support of soldier training, targets are provided to support fielded AVENGER, MANPADS, AIR-TO-AIR-STINGER, PATRIOT, Bradley STINGER Fighting Vehicle (BSFV) and LINEBACKER. Major items of target hardware which support or will support soldier training include MQM-107, Radio Controlled Miniature Aerial Target (RCMAT), Ballistic Aerial Target System (BATS), 1/5th Scale RPVT, ballistic missile target, towed training targets, target control systems and ancillary equipment. Training requirements are generated by DA major field commands, Training Centers, and Division Level Commands. These field requirements have been scrubbed against fielding and force restructuring plans, and are consistent with approved training doctrine.

Exhibit P-5, Weapon Missiles Cost Analysis			CUREMEN	T / 5 / Support			em Nomenclature: EFENSE TARGE			Weapon System	Type:	Date: Feb	ruary 1998
Missiles	ID	Equipr	rent and Fa	cilities		FY 97		Ī	FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Liements	OB	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MQM-107 -Operating Costs -Other Costs SubTotal MQM-107 Non-Recurring Costs Total MQM-107		1853 780 2633	Luon	ΨOOC	1900 732 2632	Laon	φοσο	434 537 971 971	Eddin	φοσσ	406 1026 1432		4000
RCMAT -Operating Costs -Other Costs SubTotal RCMAT		52 22 74			50 20 70			971			1432		
1/5th SCALE -Hardware -Operating Costs -Other Costs SUBTOTAL		176 60 99 335	112	2	618 118 282 1018						468 165 127 760		3
BATS -Hardware -Operating Costs -Other Costs SUBTOTAL		874 109 414 1397	157	6	425 55 184 664						34 14 48		
TOWED TARGETS -Operating Costs -Other Costs SUBTOTAL		77 32 109			54 20 74						57 23 80		
ANCILLARY/AUGMENTATION -Hardware -Operating Costs -Other Costs SUBTOTAL		909 532 606 2047	500	2	881 372 479 1732	440	2				68 99 47 214		2
BALLISTIC MISSILE TARGET -Hardware -Operating Costs -Other Costs SUBTOTAL													

Exhibit P-5, Weapon Missiles Cost Analysis				T / 5 / Support			em Nomenclature: DEFENSE TARGE			Weapon System	Туре:	Date: Feb	ruary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	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
SubTotal Support Cost Gross P-1 End Cost Less: Prior Year Adv Proc		6595			6190			971			2534		
Net P-1 Full Funding Cost PLUS P-1 CY Adv. Proc. Other Non P-1 Costs nitial Spares MODS		6595			6190			971			2534		
TOTAL		6595			6190			971			2534		

	Exhibit P-5a, Budget Procuremen	ot History	and Planning					Date:	February ²	4000
	Exhibit F-3a, budget Frocuremen	Weapon Sys			D. A. Lines Hear	Non-seleter			Febluary	1996
Appropriation / Budget Activity/Serial No: MISSILE PROCUREMENT / 5 / Support Equipment and		w eapon Gys	лет туре.		P-1 Line item	n Nomenclatur	re: DEFENSE TARGET	TO (C020C	10)	
MISSILE PROCUREMENT / 5 / Support Equipment and	Facilities	Contrast					JEFENSE IARGET		,	DED leave
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	<u>1 </u>
1/5th SCALE										
FY99										
-Hardware	Continental RPV Barstow, CA	Comp FFP	AMCOM	Oct-98	Dec-98	156	3	3 Yes		N/A
ANCILLARY/AUGMENTATION FY99 -SCORING Ground Stations	Cartwright Electronics, Inc. Fullerton, CA	Only Source FFP	АМСОМ	Nov-98	Jul-99	2	34	ł No		N/A
REMARKS:										

							P-1 I	tem N	lomer	nclatu												Date	:							
FY 98 / 99 BUDGET PR	ODUC	TION S	CHED	ULE										ARGET	rs (C9	3000)										Febru	ary 19	998		
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1/5TH SCALE	-		Ť	1	1				Ŭ						+		÷	t	Ť	Ŭ			- 1		•	.,		Ŭ	•	- ' '
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	1	99	Α	156		-			20	20	20	15	15	15 1	5 17	2 12	12	-												
ANCILLARY/AUGMENTTION																														
-SCORING Ground Stations	2	99	Α	2											1	1														
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R NAME / LOCATION		MIN.	+ -	1-8-5	MAX.	D +	•		INITIAI		_	_		1	_	1		1	1			2		•						
Continental RPV, Barstow, CA Cartwright Electronics, Fullerton, CA		3 100	1	7 150	30 200	3 5	_		REOR INITIAI		-+	+		9	-	1 5		1	1 5			2 10								
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		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1998						
Appropriation / Budget Activity/						P-1 Item Nomencla	ture:									
	MISSILE PROCURE	MENT / 2 / Other Mi	issiles					HELLFI	RE SYS SUMMARY	(C70000)						
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	MMARY (C70000) D02 FY 2003 To Complete Total D0 1797 62 D1 190.3 50.0 42						
Proc Qty	44990	1600	1102	2856	1100	2000	2200	2200	2200	1797	1797 62					
Gross Cost	1832.0	127.5	235.9	356.4	242.3	360.6	301.9	294.1	230.1	190.3	50.0	4221.1				
Less PY Adv Proc																
Plus CY Adv Proc																
Net Proc (P-1)	1832.0	127.5	235.9	356.4	242.3	360.6	301.9	294.1	230.1	190.3	50.0	4221.1				
Initial Spares	7.5											7.5				
Total Proc Cost	1839.5	127.5	235.9	356.4	242.3	360.6	301.9	294.1	230.1	190.3	50.0	4228.6				
Flyaway U/C	0.040	0.080	0.214	0.125	0.219	0.179	0.135	0.132	0.103	0.104		0.068				
Wpn Sys Proc U/C	0.040	0.080	.214	.125	.220	.181	.137	.134	.105	.106		.068				

Description: HELLFIRE is an air-to-ground missile system designed to defeat individual targets and minimize exposure of the delivery vehicle to enemy fire. Laser HELLFIRE uses semi-active laser terminal guidance; Longbow HELLFIRE uses a radio frequency guidance section and is a fire-and-forget missile. HELLFIRE is the primary anti-tank armament of the AH-64 Apache, OH-58D Kiowa Warrior, and Special Operations helicopters and will be used by the RAH-66 Comanche, the Army's next generation helicopter. Production buys are scheduled to support training, testing, fielding, and deployment of these aircraft. Beginning in FY 90, the missile was reconfigured with an interim warhead to improve lethality against near term threat reactive armor. Development of the HELLFIRE II was completed in 3rd Qtr, FY 93. The first full production contract was awarded on 26 May 93. Longbow HELLFIRE began production in FY 95 with Long Lead Items and Initial Production Facilitization.

The Army requests congressional approval for a multi-year procurement contract, to be awarded in November 1998. The multi-year contract will procure 10,397 Longbow Hellfire missiles during the five year period, FY99-03.

Exhibit P-40, Budget Item Justification Sheet								Date:		February 1998	
<u> </u>						·					
Appropriation / Budget Activity/Serial No:						P-1 Item Nomenclature:					
MISSILE PROCUREMENT / 2 / Other Missiles						LASER HELLFIRE MSL (BASIC/IHW/HFII) (C70100)					
Program Elements for Code B Items:				Code:	Other Related Prog	rogram Elements:					
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete
Proc Qty	44990	1600	750	1800							
Gross Cost	1802.8	86.3	50.7	107.1	9.5	14.3	2.2				
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	1802.8	86.3	50.7	107.1	9.5	14.3	2.2				
Initial Spares	5.7										
Total Proc Cost	1808.5	86.3	50.7	107.1	9.5	14.3	2.2				
Flyaway U/C	0.040	0.054	0.068	0.060							
Wpn Sys Proc U/C	0.040	0.054	.068	.060							

Description: HELLFIRE is an air-to-ground missile system designed to defeat individual targets and minimize exposure of the delivery vehicle to enemy fire. La HELLFIRE uses semi-active laser terminal guidance and is the primary anti-tank armament of the AH-64 Apache, OH-58D Kiowa Warrior, and Special Operations helicopters and will be used by the RAH-66 Comanche, the Army's next generation Helicopter. Beginning in FY 90, the missile was reconfigured wit interim warhead to improve lethality against near term threat reactive armor. Development of HELLFIRE II was completed in 3rd Qtr, FY 93. The first full producent of the machanical fuse with an electronic fuse, and restoration of the original length and weight.

Justification: HELLFIRE II will defeat all known electro-optical countermeasures and advanced reactive armors. Using its semi-active laser homing guidance syllaser HELLFIRE is perfectly suited for precision strikes at a variety of individual hardpoint targets, while minimizing exposure of the aircraft and supporting troop

Total Prog 49140 2072.9 2072.9 5.7 2078.6 0.042 .042

vidual targets and minimize exposure of the delivery vehicle to enemy fire. Laser armament of the AH-64 Apache, OH-58D Kiowa Warrior, and Special xt generation Helicopter. Beginning in FY 90, the missile was reconfigured with an elopment of HELLFIRE II was completed in 3rd Qtr, FY 93. The first full production seeker against countermeasures, further warhead improvements for the long term, original length and weight.

Ind advanced reactive armors. Using its semi-active laser homing guidance system, ardpoint targets, while minimizing exposure of the aircraft and supporting troops.

Exhibit P-5, Weapon Missiles Cost Analysis		Appropriation/ Bu		/Serial No: 2 / Other Missiles			m Nomenclature: ELLFIRE MSL (B (C70100)	ASIC/IHW/HFII)		Weapon System	Туре:	Date: Feb	ruary 1998
Missiles	ID		FY 96			FY 97	(C/0100)		FY 98		Ī	FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
oot Elemente		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Flyaway Costs Hardware Costs - Recurring All-Up-Rounds Containers Gov Furn Eq (GFE) Explosives Engineering Services Engineering Change Orders Fielding Acceptance Testing SUBTOTAL		34133 4212 441 1784 782 128 2350 43830	750 3454	46 1	83404 1173 2134 1472 161 4058 92402	1800	46	1200 239 2250 3689			2742 311 3664 6717		
Engineering Support Project Mgt Admin Production Engineering Support SUBTOTAL		2895 4015 6910			5069 6661 11730			3198 2659 5857			2956 4658 7614		
NON-Recurring Depot Tooling/Test Equipment Initial Production Facilitization (IPF) Rate Tooling/ Test Equipment SUBTOTAL TOTAL FLYAWAY		50740			2981 2981 107113			9546			14331		
Peculiar Support Equipment Environmental Protection Covers SUBTOTAL													
Launchers													
Gross P-1 End Cost		50740			107113			9546			14331		
Less: Prior Year Adv Proc Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc Other Non P-1 Costs Initial Spares Mods		50740			107113			9546			14331		
TOTAL		50740			107113			9546			14331		

								Date:		
	Exhibit P-5a, Budget Procurement								February 1	998
Appropriation / Budget Activity/Serial No:		Weapon Sys	tem Type:		P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Other	er Missiles					LASER HELL	FIRE MSL (BASIC/	IHW/HFII)	(C70100)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FY 96	HELLFIRE Systems Limited Liability Company (HSLLC) Orlando, FI	FFP	AMCOM	Jan-96	Nov-98	750	46	Yes		
FY97	HELLFIRE Systems Limited Liability Company (HSLLC) Orlando, Fl	FFP	AMCOM	Jan-97	May-99	1800	46	Yes		
REMARKS:										

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114F/Rockwell/FY91	1	91	N	898	898																										
114F/Rockwell/FY91	1	91	SDAF	600	600																										
114F/Rockwell/FY91	1	91	MA	408	408																										
114F/Rockwell/FY91	1	91	Α	2174	2174																				1						
114K/Martin/FY91	2	91	Α	509	347	162	64	46	52																					1	
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114F/Martin/FY92	2	92	Α	95	63	32	10	11	11																					1	
114F/Rockwell/FY92	1	92	SDAF	1200	1200																				l					7	
114F/Rockwell/FY93	1	93	MA	684	684																				l					7	
114K/Martin/FY93	2	93	A	2407	1034	1373	182	143	235	190	268	1		1													118			74	161
114K/Martin/FY93	2	93	N	1000	444	556	103		121	207	36	2		-																	101
114K/Martin/FY94	2	94	A	1417	0	1417		-			82																77	196		2	1060
114K/Martin/FY94	2	94	N	1873	0	1873																					156	155		273	1289
114K/Martin/FY95	2	95	A	1600	0	1600																					.00	.00			1600
114K/HSLLC/FY96	2	96	Α	750	0	750				Α															1					-	750
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114K/Martin/FY95	2	95	Α	1600	0	1600									120	300	388	392	400											\neg	
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		Exhibit P-4	I0, Budget	Item Justific	cation Sheet	<u> </u>		Date:		February 1998	
Appropriation / Budget Activity/	/Serial No:					P-1 Item Nomencla	ture:				
	MISSILE PROCURE	MENT / 2 / Other Mi	ssiles					LONG	GBOW HELLFIRE (C	70300)	
Program Elements for Code B	Items:			Code:	Other Related Prog	gram Elements:					
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete
Proc Qty	Filor rears	F1 1995	352	1056	1100	2000	2200	2200	2200	1797	To Complete
Gross Cost		41.2	185.2	249.3	232.7	302.0	313.0	306.2	240.2	199.1	50.0
Less PY Adv Proc							13.3	12.1	10.1	8.8	
Plus CY Adv Proc						44.3					
Net Proc (P-1)		41.2	185.2	249.3	232.7	346.3	299.7	294.1	230.1	190.3	50.0
Initial Spares											
Total Proc Cost		41.2	185.2	249.3	232.7	346.3	299.7	294.1	230.1	190.3	50.0
Flyaway U/C			0.526	0.236	0.210	0.171	0.134	0.132	0.103	0.104	
Wpn Sys Proc U/C			.526	.236	.211	.173	.136	.134	.105	.106	

Description: Longbow HELLFIRE is the air-to-ground missile system component of the Longbow system. It is designed to defeat individual targets and substantially enhance survivability of the AH-64D Longbow Apache Helicopter. Longbow HELLFIRE uses a radio frequency guidance section. Further, the Long HELLFIRE missile provides a lock-on-before-launch (LOBL) or lock-on-after-launch (LOAL) capability depending on target range and movement parameters. Lot does not change the AH-64 mission or role, but provides for increased mission effectiveness by enhancing lethality and survivability. The production buys supp training, fielding and deployment of the AH-64D Longbow Helicopter. All three Longbow program elements (Fire Control Radar, D Model Apache Helicopter and Longbow HELLFIRE Missile) were developed simultaneously and are scheduled to be fielded as a total system. Long Lead Items procured in FY 95 provided for procurement of materials for the first Low Rate Initial Production year (FY 96). This was required to meet system fielding requirements. Laser HELLFIRE and L HELLFIRE are complementary. Both are required on the modern battlefield.

Justification: The Longbow HELLFIRE will provide the capability to conduct battle both day and night in adverse weather and with battlefield obscurants presents radio frequency guidance section, the Longbow HELLFIRE complements the semi-active Laser HELLFIRE II with a true fire and forget capability, maximizing ability of the Longbow Apache helicopter to operate in adverse weather, and dramatically increases the aircraft's survivability.

The Army requests congressional approval for a multi-year procurement contract to be awarded in November 1998. The multi-year contract will procure 10,39 Longbow HELLFIRE missiles during the five year period, FY99-03. Advance Procurement of \$44.3M in FY99 required for Economic Order Quantity (EOQ) mat The multi-year contract will result in a cost avoidance of \$172.2M over annual procurement. The exhibits have been corrected to show the split between FY99 procurement costs and Advance Procurement. Request the multi-year be approved, authorized, and appropriated using the funding split shown.

Total Prog 12905 2118.9 44.3 44.3 2118.9 2118.9 0.163 .164

of the Longbow system. It is designed to defeat individual targets and ongbow HELLFIRE uses a radio frequency guidance section. Further, the Longbow h (LOAL) capability depending on target range and movement parameters. Longbow ectiveness by enhancing lethality and survivability. The production buys support ngbow program elements (Fire Control Radar, D Model Apache Helicopter and be fielded as a total system. Long Lead Items procured in FY 95 provided for the s was required to meet system fielding requirements. Laser HELLFIRE and Longbow

both day and night in adverse weather and with battlefield obscurants present. With smi-active Laser HELLFIRE II with a true fire and forget capability, maximizing the atically increases the aircraft's survivability.

t to be awarded in November 1998. The multi-year contract will procure 10,397 surement of \$44.3M in FY99 required for Economic Order Quantity (EOQ) materials. curement. The exhibits have been corrected to show the split between FY99 ed, authorized, and appropriated using the funding split shown.

ID	MISSILE PROCU	KEMENI/2	∠ / Otner Missiles									
ID					LONG	GBOW HELLFIRE	: (C70300)				rebi	uary 1998
		FY 96			FY 97			FY 98			FY 99	
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
	133194 148 4330	352	378	210630 609 4194	1056	199	198100 1167 627 2953	1100 1100	180 1	270979 2211 1295 5301	2000 2000	135 1
	2369 142598			776 2669 221559			1100 2250 208444			4856 3640 291002		
	3415 6094 9509			3872 5455 9327			3663 4398 8061			3664 3772 7436		
	12309 20798 33107 185214			2319 16081 18400 249286			14900 1 4900 231405			298438		
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	Exhibit P-5a, Budget Procureme							Date:	February 1	1998
Appropriation / Budget Activity/Serial No: MISSILE PROCUREMENT / 2 / Other	Missiles	Weapon Sys	tem Type:		P-1 Line Item	Nomenclature LON	e: GBOW HELLFIRE	(C70300)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years FY 96	Longbow Limited Liability Company (LLLC) Orlando, Fl	and Type FFP	AMCOM	Jan-96	Delivery May-97	Each 352	\$000 378	Yes	Avail	*
FY 97	Longbow Limited Liability Company (LLLC) Orlando, Fl	FFP	AMCOM	Jan-97	Jul-98	1056	199	Yes		**
FY 98	Longbow Limited Liability Company (LLLC) Orlando, Fl	FFP	АМСОМ	Dec-97	Sep-99	1100	180	Yes		**
FY 99	Longbow Limited Liability Company (LLLC) Orlando, Fl	***FFP	АМСОМ	Dec-98	Sep-00	2000	158	Yes		**

REMARKS:

^{*}System and development specifications are under government control, but the technical data package is not.

^{**}In the Longbow HELLFIRE's transition to production, performance based specifications will be used in all production contracts.

^{***}Planned five year multiyear contract.

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		Exhibit P-4	0, Budget	Item Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:	•				
	MISSILE PROCURE	MENT / 2 / Other Mi	ssiles					ENHANCED FIBER	OPTIC GUIDED MIS	SILE (EFO (H03100	0)	
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
0	0603313A/D496			В			NC	DNE				
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					96	96						192
Gross Cost	0.0	0.0	0.0	0.0	12.9	13.7	0.0	0.0	0.0	0.0	0.0	26.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	12.9	13.7	0.0	0.0	0.0	0.0	0.0	26.7
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	12.9	13.7	0.0	0.0	0.0	0.0	0.0	26.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: EFOGM is the primary "killer" within the OSD approved Rapid Force Projection Initiative (RFPI) ACTD. The EFOGM system is a multi-purpose, precision kill weapon system. EFOGM is a day/night, adverse weather capable system that allows the maneuver commander to extend the battle space beyond line of sight to ranges up to 15 kilometers, thus reducing the exposure of the gunner and allowing targets to be taken out of the battle early. The system consists of a gunner's station, a tactical missile, and a fiber optic data link plus command vehicles. The missile can navigate to the target area automatically, and the gunner can intervene at any time to lock on and engage any detected targets. This gunner in the loop capability enhances the target acquisition process and minimizes fratricide and collateral damage, so important in urban warfare. The gunner views the flight path and target via a seeker on the missile linked to the gunner's video console. The missile incorporates an IR imaging seeker and a variety of advanced targeting functionalities.

JUSTIFICATION: EFOGM will give light forces the ability to engage and defeat threat armored combat vehicles, other high value ground targets, and hovering or moving rotary wing aircraft that may be masked from line of sight direct fire weapon systems. FY99 buys 96 EFOGM missiles and provides for refurbishment of fire units evaluated during RFPI large-scale field experiment.

NOTE: EFOGM, is an RDT&E funded Advanced Concept Technology Demonstration (ACTD). As directed by congressional language, procurement funding buys limited residual end-items which will not be consumed during testing and will be left as "go-to-war" assets. The FY98 DoD Appropriations Act transferred \$13.3M from RDT&E into this missile procurement budget line for fabrication of missiles not used in test.

Exhibit P-5, Weapon Missiles Cost Analysis		Appropriation/ Bu MISSILE PROCU		//Serial No: 2 / Other Missiles				GUIDED MISSILE		Weapon System	Туре:	Date: Febr	uary 1998
Missiles	ID		FY 96	1		FY 97	(EFO (H0310	00)	FY 98			FY 99	
Missiles Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
COSt Liements	0.5	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
EFOGM Missiles Fire Unit Refurbishment		+	2001	\$	Ψ	20011	Ψ000	12,942	96	135	13,213 503	96	138 30
TOTAL								12,942			13,716		

	Exhibit P-5a, Budget Procurement	t History a	and Planning					Date:	February ²	1998
ppropriation / Budget Activity/Serial No:	, ,	Weapon Sys			P-1 Line Item	Nomenclatur	e:		-	
MISSILE PROCUREMENT / 2 / Other M	issiles				ENH	HANCED FIBE	R OPTIC GUIDED	MISSILE (EFO (H03	100)
/BS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss
scal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FOGM Missiles										
Y 98	Raytheon ESD, Huntsville, AL	TBD	DSA, AMCOM	Jul-98	Jul-99	96	135		N/A	Mar-
Y 99	Raytheon ESD, Huntsville, AL	TBD	DSA, AMCOM	Jan-99	Jan-00	96	138	N/A	N/A	Mar-
	F Advanced Technology Demonstration contract wa		I ly awarded to Raytheon on	16 May 95. C	urrent contr	act will be	modified to add			
r i so procurement fundi	ng for 96 missiles; funds will be obligated during J	uiy 90.								

FY 98 / 99 BUDGET	PRODUC	CTION SO	CHED	ULE			P-1 I	Item N				ER O	PTIC G	SUIDE	D MISS	SILE ((EFO ((H031	100)				Dat	e:			Febr	uary 1	998		
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		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other Mi	issiles					TOW 2 S	SYSTEM SUMMARY	(C59300)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	143242	1541										144783
Gross Cost	2219.5	36.7	9.1	9.4	1.2						0.0	2275.9
Less PY Adv Proc	16.1											16.1
Plus CY Adv Proc	16.1											16.1
Net Proc (P-1)	2219.5	36.7	9.1	9.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2275.9
Initial Spares	20.2											20.2
Total Proc Cost	2239.7	36.7	9.1	9.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2296.1
Flyaway U/C	33.9	23.7										
Wpn Sys Proc U/C	0.016	0.023										

DESCRIPTION: TOW (Tube-Launched, Optically-Tracked, Wire-Guided Missile System) is designed to fulfill, the Heavy Antitank Assault Weapon System requirement for Close Combat Maneuver Forces. TOW is used primarily to destroy formations of armored vehicles, but is also an effective assault weapon against vehicles, field fortifications, and emplacements. TOW was a part of a combined United Nations interagency force in Somalia and may be used against other regional threats. TOW can be fired from a ground tripod or from specifically adapted vehicles, e.g., ITV, Bradley, HMMWV, and Cobra. TOW is designated as the point target weapon on selected helicopters. TOW 2 has two distinct improvements, increase performance/hardening and a 6" full caliber warhead. TOW 2A added a small shaped tip of the TOW 2 probe to counter reactive armor, TOW 2B is an improvement to TOW 2 lethality based on a new warhead, fuze, and software to obtain a fly-over-shoot-down-missile.

JUSTIFICATION: FY 98 funds completes plant transition/closure and final disposition of excess equipment.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
Missiles Cost Analysis		MISSILE PROCU	REMENT/2	2 / Other Missiles		TOW 2	SYSTEM SUMM	ARY (C59300)				Febi	ruary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Missile Hardware-Recurring Missile Contract GFE Engineering Change Orders		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
(Value Engineering) SUBTOTAL MISSILE HARDWARE													
Non-Recurring Costs Capstan Block Plant Transition/Closure/Final Disposition of excess equipment.		5000 1004			4600 1113			893					
SUBTOTAL NONRECURRING COST PROCUREMENT SUPPORT- Contractor Engineering		6004			5713			893					
Production Engineering Government Test Project Management Admin Fielding		2063 680 240			1929 101 1567			150 147					
SUBTOTAL		2983			3597			297					
Total Flyaway		8987			9310			1190					
Support Cost Peculiar Support Equipment Launcher (N/S) Training Device (B/S) DMPE Engineering Change Orders Other (Specify) FDT		108			75								
SUBTOTAL SUPPORT COST		108			75								
Gross P-1 End Cost Less: Prior Year adv Proc Net P-1 Full Funding Cost		9095 9095			9385 9385			1190 1190					
Plus P-1 CY Adv Proc. Other non P-1 Costs Initial Spares MODS		41319			2311 16			5410 61061			6595 62478		
TOTAL		50414			11712			67661			69073		

ppropriation / Budget Activity/Serial No:		Weapon System	Type:		P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Other Missiles			,				SYSTEM SUMMA	RY (C593	00)	
BS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Iss Date
Y 1996	Hughes Aircraft Tucson, AZ	SS/FFP	АМСОМ	Aug-96		N/A	N/A		N/A	N/A
Y 1997 Inal Disposition of Excess Equipment	Hughes Aircraft Tucson, AZ	TBD*	АМСОМ	TBD	N/A	N/A	N/A	N/A	N/A	N/A
Y 1998 inal Disposition of Excess Equipment	Hughes Aircraft Tucson, AZ	TBD	AMCOM	TBD	N/A	N/A	N/A	N/A	N/A	N/A
*Plans not finalized for plant cl	osure and material disposition.									l

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	1	FY95&PRIOR	FMS	7702	3933	3769						1047					1665	11						1046							
	1	FY 96	FMS	4865	835	4030																				1183					2847
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		Exhibit P-4	0, Budget l	tem Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity	//Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCUREMEN	NT / 3 / Modification	of Missles					ST	INGER MODS (C200	000)		
Program Elements for Code B	3 Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	14.4	5.0	11.8	37.2	21.1	13.9	19.6	26.3	31.6	26.1		207.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.4	5.0	11.8	37.2	21.1	13.9	19.6	26.3	31.6	26.1		207.0
Initial Spares												
Total Proc Cost	14.4	5.0	11.8	37.2	21.1	13.9	19.6	26.3	31.6	26.1		207.0
Flyaway U/C	Not Applicable -	This is a modifi	cation program									
Wpn Sys Proc U/C	Not Applicable -	This is a modifi	cation program									

DESCRIPTION

STINGER Block I Missile Upgrades - Hardware and software modifications to the STINGER RMP Missile System improves performance against targets which are slow moving, employing advanced counter-measures, or operating at night. These STINGER Block I Upgrade modifications maintain compatibility with all current and planned command and launch platforms including Air-To-Air STINGER, AVENGER, and the gripstock used in shoulder fired applications.

STINGER Block I Platform Upgrades - In order to take advantage of the Block I missile's improved capability, each firing platform must be modified. For Man Portable Air Defense System (MANPADS) gripstocks new Electronically Erasable Programmable Read Only Memory (EEPROMS) must be procured and installed in existing, fielded gripstocks. For Air-to-Air Stinger, Bradley Linebacker, and Avenger, new circuit card assemblies must be procured and installed in each systems Interface Electronics Assembly.

Bradley Linebacker (formerly Bradley STINGER Fighting Vehicle - Enhanced (BSFV-E)) - The Bradley Linebacker is an air defense system based upon minimal upgrades to the currently fielded Bradley Stinger Fighting Vehicle-Manpads Under Armor (BSFV-MUA). Funding for Bradley Linebacker in FY99 and out is now budgeted in Wheeled and Tracked Combat Vehicles (WTCV) appropriation.

JUSTIFICATION

STINGER Block I Missile Upgrades - The STINGER-RMP Missile is currently deficient in engagements against head/tail-on and slow moving targets, countermeasures, and night time engagements. There is also a safety deficiency whereby aviation platforms must super-elevate to fire the missile. The STINGER Block I Upgrade materiel change was developed to correct these deficiencies. This materiel change was recommended as the near term solution by the Air-to-Air Missile General Officer's Steering Committee.

STINGER Block I Platform Upgrades - In order to take advantage of the Block I missile's improved capability, each firing platform must be modified. Without modifications. Block I missiles fired from these platforms will perform as Stinger-RMP missiles, negating the Block I missile improved performance.

	Exhibit	P-40M Budget I	tem Justific	ation Sheet	:		Date		February 1998		
Appropriation / Budget Activit					P-1 Item Nomenclati	ure			•		
	MISSILE PROCUREMENT / 3 / Modifie	cation of Missles					STI	NGER MODS (C200	00)		
Program Elements for Code I	B Items		Code	Other Related Progr	ram Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Stinger Block I Mi	ssile Upgrades										
01-87-03-1510	Operational	10.3	31.4	17.2	13.9	19.6	26.3	31.6	26.1		176.4
Stinger Block I Pl	atform Upgrades										
TBD	TBD	0.0	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	9.7
Bradley Lineback	er										
TBD	TBD	1.5	0.0		0.0	0.0	0.0	0.0	0.0	0.0	1.5
Totals		11.8	37.2	21.1	13.9	19.6	26.3	31.6	26.1	0.0	187.6
								00			

1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 Complete 10puts 209 281 281 282 282 308 308 308 309 217 217 218 218 102 102 102 102 102 10puts 209 209 209 281 281 282 282 308 308 308 308 309 217 217 218 218 102 306		
ESCRIPTION / JUSTIFICATION: The STINGER Block I Missile Upgrade materiel change incorporates hardware and software modifications to the STINGER-RMP missile system to increase overall missile performance in certain engagement scenarios and resolve a key aviation deficiency which requires platforms to super-elevate. The engagement scenarios in which missile performance improves include head/tail-on and slow moving targets, counter-measures, and injit time engagements. These changes include hardware changes to the missile and software change to the missile and software change to the missile and software change to the missile and software changes to the missile and softwar	E: Stinger Block I Missile Upgrades 01-87-03-1510	
The STINGER Block I Missile Upgrade materiel change incorporates hardware and software modifications to the STINGER-RMP missile system to increase overall missile performance in certain engagement scenarios and resolve a key aviation deficiency which requires platforms to super-elevate. The engagement scenarios in which missile performance improves include head/fail-on and slow moving targets, counter-measures, and night time engagements. These changes include hardware changes to the missile and software change the command and launch platforms which include Air-to-Air STINGER, AVENGER, and gripstocks used in shoulder-fired applications. The material change was recommended by Army leadership as the near term solution to the STINGER RMP deficiencies. EVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Begin Development 3rd Qtr, FY92 Production Qualification 4th Qtr, FY95 Software Critical Design Review 2nd Qtr, FY96 Software Performance Assessment 2nd Qtr, FY97 Inteligence of the production of the state of th	MS AFFECTED: Stinger-RMP Missile	
system to increase overall missile performance in certain engagement scenarios and resolve a key aviation deficiency which requires platforms to super-elevate. The engagement scenarios in which missile performance improves include head/tail-on and slow moving targets, counter-measures, and night time engagements. These changes include hardware changes to the missile and software chang the command and launch platforms which include Air-to-Air STINGER, AVENGER, and gripstocks used in shoulder-fired applications. The application and the command and launch platforms which include Air-to-Air STINGER, AVENGER, and gripstocks used in shoulder-fired applications. The application are remarked by Army leadership as the near term solution to the STINGER RMP deficiencies. EVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Begin Development 3rd Qtr, FY92 Production Qualification 4th Qtr, FY95 Software Critical Design Review 2nd Qtr, FY96 Software Performance Assessment 2nd Qtr, FY97 Inteligence of the production of the STINGER RMP deficiencies. FY 1998 2nd Qtr, FY97 Inteligence of the production of the STINGER RMP deficiencies. FY 2000 5 FY 2001 5 FY 20	TIFICATION:	
Begin Development	ease overall missile performance in certain engagement scenarios and resolve a key aviation deficiency which uper-elevate. The engagement scenarios in which missile performance improves include head/tail-on and sler-measures, and night time engagements. These changes include hardware changes to the missile and softward launch platforms which include Air-to-Air STINGER, AVENGER, and gripstocks used in shoulder-fired apply was recommended by Army leadership as the near term solution to the STINGER RMP deficiencies.	ch requires av low moving ware changes
Pr Yr	Production Qualification 4th Qtr, FY95 Software Critical Design Review 2nd Qtr, FY96	
Totals 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
A75		FY 2001
Total Preserve 130 205 140 275 300 270 210 320 390		
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 Complete 10puts 209 281 281 282 282 308 308 308 309 217 217 218 218 102 102 102 102 102 10puts 209 209 209 281 281 282 282 308 308 308 308 309 217 217 218 218 102 306		
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 Complete 10puts 209 281 281 282 282 308 308 308 309 217 217 218 218 102 102 102 102 102 10puts 209 209 209 281 281 282 282 308 308 308 308 309 217 217 218 218 102 306	FY 2002 FY 2003 FY 2004 FY 2005 To	Totals
viutputs 209 209 209 281 281 282 282 308 308 309 217 217 218 218 102 306 102 IETHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Months		Total
IETHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Months		104
	209 209 209 281 281 282 282 308 308 309 217 217 218 218 102 306	104
ontract Dates: FY 1997 2nd Qtr, FY97 FY 1998 2nd Qtr, FY98 FY 1999 2nd Qtr, FY99	MENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Mon	nths

4th Qtr, FY99

FY 1999

4th Qtr, FY00

FY 1998

Delivery Date:

FY 1997

4th Qtr, FY98

					INI	OIVIDUA	L MODI	IFICATIO	N							Date		Februa	ary 1998	
MODIFICATION TITLE (Cont):		Sti	nger E	Block I	Missile	e Upgr	ades (01-87-0	3-151	0										
FINANCIAL PLAN: (\$ in Millions)																				
		1996																		
		Prior		1997	FY 1			1999		2000		2001		2002		2003		С	TOT	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT		30.8		3.7																34.5
Kit Quantity Installation Kits Installation Kits, Nonrecurring	1850		1987		1350		768		835		1126		1233		870		408		10427	
Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment		24.9		28.9		17.2		13.9		19.6		26.3		31.6		26.1		17.4		205.9
Support Equipment Other Linebacker Task Ford Interim Contractor Support	ce XXI			2.5	FY98	include	s \$3.7M	from Br	adley Li	nebacke	r (C215	00).								2.5
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits	1850	"Install	ation of	Hardwar	e" costs	are incl	uded in		ent" abo	ove.	1126		1233		870				1850 1987 1350 768 835 1126 1233 870	
TC Equip-Kits																	408		408	
Total Installment	1850	04.0	1987	04.4	1350	47.0	768		835	40.0	1126		1233	04.0	870	00.1	408	47.4	10427	
Total Procurement Cos		24.9		31.4		17.2		13.9		19.6		26.3		31.6		26.1		17.4		208.4

INDIVIDUAL MODIFICATION Date February 1998 Stinger Block I Platform Upgrades TBD MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: Manpads, Avenger, Bradley Linebacker, OH-58D DESCRIPTION / JUSTIFICATION: In order to take advantage of the Block I missile's improved capability, each firing platform must be modified. For MANPADS gripstocks, new electronically erasable programmable read only memory (EEPROM) must be procured and installed in existing, fielded gripstocks. Air-to-Air Stinger, Bradley Linebacker, and Avenger, new circuit card assemblies must be procured and installed in each system's Interface Electronics Assembly. Without modifications, Block I missiles fired from these platforms will perform as Stinger-RMP missiles, negating the Block I missile improved performance. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Development has been completed. Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 3 1 3 826 202 486 902 916 464 Inputs Outputs 826 202 486 902 916 464 FY 2002 FY 2003 FY 2004 FY 2005 Totals Complete 3796 Inputs 3796 Outputs METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 25 Months Contract Dates: 2nd Qtr, FY98 FY 1997 3rd Qtr, FY97 FY 1998 FY 1999 Not applicable FY 1997 3rd Qtr, FY99

3rd Qtr. FY00

FY 1999

Not applicable

FY 1998

Delivery Date:

					IND	DIVIDUA	L MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Sti	nger E	Block I	Platfor	m Upg	grades	s TBD	1											
FINANCIAL PLAN: (\$ in Millions	FY 19	996																		
	and P		FY 1	1997	FY 1	998	FY	1999	FY	2000	FY	2001	FY	2002	FY	2003	1	С	TOT	AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT																				
Kit Quantity Installation Kits Installation Kits, Nonrecurring	0		2416		1380														3796	
Equipment Equipment, Nonrecurring Engineering Change Orders Data				5.8		3.9														9.7
Training Equipment Support Equipment Other																				
Interim Contractor Support																				
Installation of Hardware FY 1996 & Prior Eqpt Kits			"Inst	allation o	of Hardw	are" cos	ts are ir	ncluded i	 n"Equip 	ment" at	oove.									
FY 1997 Eqpt Kits FY 1998 Eqpt Kits							1028		1388 1380										2416 1380	
FY 1999 Eqpt Kits FY 2000 Eqpt kits																				
FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits																				
TC Equip-Kits																				
Total Installment							1028		2768										3796	
Total Procurement Cos				5.8		3.9														9.7

INDIVIDUAL MODIFICATION Date February 1998 Bradley Linebacker TBD MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: Bradley Stinger Fighting Vehicle - Manpads Under Armor (BSFV-MUA) DESCRIPTION / JUSTIFICATION: The Bradley LINEBACKER, formerly the Bradley Stinger Fighting Vehicle-Enhanced (BSFV-E), is an air defense system based upon min upgrades to the currently fielded BSFV-MUA. The Bradley LINEBACKER provides heavy maneuver forces with dedicated air defense against a variety of threat platforms. The Bradley LINEBACKER is a Non-Development Item rapid acquisition procurement to upgrade the existing BSFV-MUA with the addition of Bradley LINEBACKER modification kit. The kit includes an integrated, externally mounted Standard Vehicle Mounted Launcher with a modified fire control. It fires up to four Stinger missiles while the crew remains under armor protection. The Bradley LINEBACKER fielding maximizes the utility of the FAADS C2I Kit and the Bradley Fighting Vehicle-Operational Desert Storm which are being fielded separately by CECOM and TACOM. This materiel solution corrects major Air Defense Artillery deficiencie survivability, fire control, target acquisition and identification with a reduction in crew size as a force savings. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Operational test and evaluation September 1996 Production decision November 1996 Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 3 1 3 Inputs Outputs FY 2002 FY 2003 FY 2004 FY 2005 Totals Complete Inputs Outputs METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months Contract Dates: FY 1997 FY 1998 FY 1999 Not applicable Not applicable Not applicable FY 1997 Delivery Date: Not applicable FY 1998 Not applicable FY 1999 Not applicable

					IN	DIVIDU	AL MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Br	adley	Lineba	cker	TBD														
FINANCIAL PLAN: (\$ in Millions			-																	
		1996	ΓV	1997	I FV	1998	I EV	1999	I FV	2000	I FV	2001		2002	I 5	2003	-	ГС	TO ⁻	- Λ Ι
	Qty	Prior \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ \$
RDT&E PROCUREMENT	,	8.8	,	· ·		*		,				,		,				,	,	8.8
Kit Quantity Installation Kits Installation Kits, Nonrecurring	8		0		0														8	
Equipment Equipment, Nonrecurring		1.5																		1.5
Engineering Change Orders Data																				
Training Equipment Support Equipment																				
Other Interim Contractor Support																				
			-	-	-					-		│ Bradley ming. FY			ted in C	21300.				
				Block I I					Ĭ											
Installation of Hardware			"Inst	tallation	 of Hardv	vare" co	sts are i	ncluded i	 in"Equip	ment" at	ove.									
FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits	8																		8	
FY 1998 Eqpt Kits FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits FY 2001 Eqpt kits																				
FY 2002 Eqpt kits FY 2003 Eqpt kits																				
TC Equip-Kits																				
Total Installment	8																		8	
Total Procurement Cos		1.5																		1.5

		Exhibit P-4	0, Budget	ltem Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
!	MISSILE PROCUREMEN	NT / 3 / Modification	of Missles					AV	ENGER MODS (CE8	710)		
Program Elements for Code B I	Items:			Code:	Other Related Prog C14900 AVEN			nger training de er (Myp)	EVICES, C16000 AVE	ENGER PED MT		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	9.5	10.0	0.0	0.0	0.0	8.4	8.5	7.0	15.8	2.9		62.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	10.0	0.0	0.0	0.0	8.4	8.5	7.0	15.8	2.9		62.2
Initial Spares			1.0									1.0
Total Proc Cost	9.5	10.0	1.0	0.0	0.0	8.4	8.5	7.0	15.8	2.9		63.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: AVENGER is fielded in divisional and corps Short Range Air Defense (SHORAD) battalions and US Marine Corps units. The AVENGER system is a lightweight, highly mobile and transportable surface-to-air missile and .50 caliber machine gun system. Eight Stinger missiles and a .50 caliber machine gun are mounted on a heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV). The AVENGER is operated by a two-man crew for stationary or shoot-on-the-move defense against Unmanned Aerial Vehicles (UAV), cruise missiles, helicopters, and fixed-wing aircraft in all weather conditions.

JUSTIFICATION: The Slew-to-cue (STC) upgrade accepts sensor track data from the Forward Area Air Defense Command, Control and Intelligence System (FAAD C2I) and automatically slews the AVENGER turret in azimuth and elevation, placing targets in the gunner's field of view. The STC provides a 55% increase in the number of engagements and a greater increase in the number of kills. The STC was approved by the Warfighting Rapid Acquisition Panel (WRAP) Council in Dec 96. Funding was approved in Mar 97 and provided through TRADOC for \$5.8M in FY 97 RDT&E dollars. Funds are provided to fund the STC through FY 04; funding required in outyears for modifications to defeat obsolescence of AVENGER system electronics for Army forces only.

NOTE: Congress provided an additional \$7.2M in FY 98 on Avenger System Summary, which appropriately should be in this program, Avenger Mods. Details on the FY98 \$7.2M follow on the P-3a.

	Exhibit F	P-40M Budget I	tem Justific	ation Sheet	:		Date		February 1998		
Appropriation / Budget Ac					P-1 Item Nomenclatu	ıre					
Program Elements for Co	MISSILE PROCUREMENT / 3 / Modifica	ation of Missles	Codo	Other Related Progr	rom Flomonto		AVE	ENGER MODS (CE87	710)		
Program Elements for Co	de Billeriis		Code A	Other Related Progr	am Elements						
Description		Fiscal Years	•								
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
AVENGER SLE	W-TO-CUE										
TBD	UNCLASSIFIED	0.0	0.0	0.0	8.4	8.5	7.0	15.8	2.9	0.0	42.7
Totals		0.0	0.0	0.0	8.4	8.5	7.0	15.8	2.9	0.0	42.7

INDIVIDUAL MODIFICATION Date February 1998

MODIFICATION TITLE: AVENGER SLEW-TO-CUE

MODELS OF SYSTEMS AFFECTED: AVENGER PED MT STINGER (MYP) 16000

DESCRIPTION / JUSTIFICATION:

AVENGER is fielded in divisional and corps SHORAD battalions and USMC units. The AVENGER system is a lightweight, highly mobile transportable surface-to-air missile and .50 caliber machine gun system. Eight Stinger missiles and a .50 caliber machine gun are mounted on a heavy HMMWV. The AVENGER is operated by a two-man crew for stationary or shoot-on-the-move defense against UAVs, cruise missiles, helicopters, and fixed-wing aircraft in all weather conditions.

MODIFICATION: The Slew-to-cue (STC) upgrade accepts sensor track data from the FAAD C2I and automatically slews the AVENGER turret in azimuth and elevation, placing targets in the gunner's field of view. The STC provides a 55% increase in the number of engagements and a greater increase in the number of kills. The STC was approved by the WRAP Council in Dec 96. WRAP provided \$5 FY97 RDTE funds which will fund LRIP/Prototype contract. The STC will be embedded into the AVENGER Fire Control Computer

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

FUNDING RECEIVED 10/97

LRIP/PROTOTYPE CONTRACT AWARD FEB-APR 98 (Funded with WRAP R&D funds)

DELIVERIES (PROTOTYPE) APR - SEP 98 (These are R&D quantities and are not shown.)

TESTING (PROTOTYPE) JUN - SEP 98

MS III (PRODUCTION) AUG-OCT 98

	Pr Yr		FY 19	997			FY 19	998			FY 19	99			FY 2	000			FY 20	01	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	
Inputs											13	13	14	14	14	14	14	14	14	13	1
Outputs												13	13	14	14	14	14	14	14	14	1
		FY 20	02	1		FY 2	003			FY 20	04			FY 20	005	1		То		То	tals
									-								_				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Cor	nplete			
Inputs	10	10	10	10	1 26	2 27	3 27	4 27	3	2	2	2	25	2 25	25	24	42	nplete			44
-	10 12	10 10	10 10	_	26 10	27 26	-	27 27	3 27	2 3		2 2	25 2	25 25	25 25	24 25		nplete			44
Outputs	12	10	10	_	10	26	27 27		27		2		2	25	25		42 66		/lonths		
Inputs Outputs METHOD OF IMPLEM Contract Dates:	12	10 DN: [10	10 RY ORI	10	26 ADMINI	27 27 STRATI	27	27 TIME:		2	2	2 F	25	25 CTION	25	42 66 ME:		Months		

					IND	IVIDUA	L MODI	FICATIO	N							Date		Febru	ıary 1998	
MODIFICATION TITLE (Cont):		Α\	/ENGI	R SLE	W-TO-	CUE														
FINANCIAL PLAN: (\$ in Millions)	E \/	1000	1																	
		1996 I Prioi	EV	1997	FY 1	008	EV	1999	EV	2000	ΕV	2001	EV	2002	FV '	2003	-	ГС	TOT	ΔΙ
-	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E						·	,		,				,		,					
PROCUREMENT																				
Kit Quantity					28		52		53		40		107		9				289	
Manufacturing Facilities						0.1		0.1		0.1		0.1		0.1		0.1				0.4
Hardware						2.7		5.0		5.1		4.0		10.9		1.0				28.7
CLS-Labor						0.0		0.1		0.2		0.2		0.3		0.4				1.2
CLS-Initial Spares						0.4		0.7		0.8		0.6		1.5		0.1				4.1
CLS-Initial Consumables						0.1		0.1		0.1		0.1		0.3		0.0				0.8
1st Dest Tran						0.0		0.0		0.0		0.0		0.0		0.0				0.1
Training						0.1														0.1
Log Demo/Test Spt						0.1														0.1
Dev/Update Manuals						0.1														0.1
PQT						0.6														0.6
Refurbish Kits						0.4														0.4
Gov NET,LSAR,TPS,SDT						1.0		0.1		0.1		0.2		0.3		0.2	2			1.9
Project Management						1.2		1.7		1.5		1.4		1.2		1.0				7.9
Installation of Hardware			NOTE:	Installati	ion costo	ara inal	ludad in	the cost	of the k	ito										
FY 1996 & Prior Eqpt Kits			INOTE.	ii iStaiiati		are incl		116 6081	or title K	iio.										
FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits																				
FY 1997 Eqpt Kits FY 1998 Eqpt Kits																				
FY 1998 Eqpt Kits FY 1999 Eqpt Kits					28	0.5	52	0.6											80	1.0
FY 2000 Eqpt kits					20	0.5	32	0.6	53	0.6									53	0.6
FY 2000 Eqpt kits									55	0.0	40	0.5							40	0.5
FY 2002 Eqpt kits											40	0.5	107	1.2	9	0.1			116	1.3
FY 2003 Eqpt kits													107	1.2	9	0.1			110	1.3
TC Equip-Kits																				
Total Installment					28	0.5	52	0.6	53	0.6	40	0.5	107	1.2	9	0.1			289	3.3
Total Procurement Cos					20	7.2	32	8.4	55	8.5	40	7.0		15.8		2.9			209	49.8

		Exhibit P-4	40, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
MISS	ILE PROCUREMENT / 5	/ Support Equipmer	nt and Facilities					ITEMS LESS	THAN \$2.0M (MISSI	LES) (CL2000)		
Program Elements for Code B I	Items:			Code:	Other Related Progr	ram Elements:						
				А								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	32.9	1.2	0.8	1.0	0.9	0.9	1.0	1.0	1.1	1.1	0.0	41.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	32.9	1.2	0.8	1.0	0.9	0.9	1.0	1.0	1.1	1.1	0.0	41.9
Initial Spares												
Total Proc Cost	32.9	1.2	0.8	1.0	0.9	0.9	1.0	1.0	1.1	1.1	0.0	41.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: F	Provides for pro	curement o	f various too	ols and shop	sets to suppo	ort the Army's	s missile syst	ems worldw	ide.			

JUSTIFICATION: Funding is required for procurement of tool and shop sets to support the following systems:

MLRS TOW **AVENGER**

Exhibit P-5, Weapon Missiles Cost Analysis			-	T / 5 / Support			em Nomenclature: LESS THAN \$2.0			Weapon System	Type:	Date: Feb	ruary 1998
84''	ID	Equipi	FY 96	icilities		FY 97	(CL2000)		FY 98		1	FY 99	
Missiles	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements	CD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ALL ARE MISSILE TOOL KITS. NO MODS		\$ 000	Lacii	- 4000	ΨΟΟΟ	Lacii	-	\$000	Lacii	ΨΟΟΟ	φοσσ	Lacii	\$
1. MLRS COMPONENTS ASSEMBLY	Α	251 215			485 260			454 237			459 242		
2. TOW COMPONENTS ASSEMBLY	Α	65 35			16 8			16 8			14 6		
3. AVENGER COMPONENTS ASSEMBLY	Α	165 89			142 78			140 73			132 69		
TOTAL		820			989			928			922		
NOTE: EACH SYSTEM HAS MORE THAN ONE KIT WITH VARYING QUANTITIES AND UNIT COSTS FOR EACH KIT.													

Appropriation / Budget Activity/S	erial No:	Exhibit P-4	10, Budget	Item Justific	cation Sheet	P-1 Item Nomencla	ture:	Date:		February 1998		
	MISSILE PROCURE	MENT / 2 / Other Mi	issiles					TOW 2	SYSTEM SUMMARY	(C59300)		
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	143242	1541										144783
Gross Cost	2219.5	36.7	9.1	9.4	1.2						0.0	2275.9
Less PY Adv Proc	16.1											16.1
Plus CY Adv Proc	16.1											16.1
Net Proc (P-1)	2219.5	36.7	9.1	9.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2275.9
Initial Spares	20.2											20.2
Total Proc Cost	2239.7	36.7	9.1	9.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2296.1
Flyaway U/C	33.9	23.7										
Wpn Sys Proc U/C	0.016	0.023										

DESCRIPTION: TOW (Tube-Launched, Optically-Tracked, Wire-Guided Missile System) is designed to fulfill, the Heavy Antitank Assault Weapon System requirement for Close Combat Maneuver Forces. TOW is used primarily to destroy formations of armored vehicles, but is also an effective assault weapon against vehicles, field fortifications, and emplacements. TOW was a part of a combined United Nations interagency force in Somalia and may be used against other regional threats. TOW can be fired from a ground tripod or from specifically adapted vehicles, e.g., ITV, Bradley, HMMWV, and Cobra. TOW is designated as the point target weapon on selected helicopters. TOW 2 has two distinct improvements, increase performance/hardening and a 6" full caliber warhead. TOW 2A added a small shaped tip of the TOW 2 probe to counter reactive armor, TOW 2B is an improvement to TOW 2 lethality based on a new warhead, fuze, and software to obtain a fly-over-shoot-down-missile.

JUSTIFICATION: FY 98 funds completes plant transition/closure and final disposition of excess equipment.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
Missiles Cost Analysis		MISSILE PROCU	REMENT/2	2 / Other Missiles		TOW 2	SYSTEM SUMM	ARY (C59300)				Febi	ruary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Missile Hardware-Recurring Missile Contract GFE Engineering Change Orders		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
(Value Engineering) SUBTOTAL MISSILE HARDWARE													
Non-Recurring Costs Capstan Block Plant Transition/Closure/Final Disposition of excess equipment.		5000 1004			4600 1113			893					
SUBTOTAL NONRECURRING COST PROCUREMENT SUPPORT- Contractor Engineering		6004			5713			893					
Production Engineering Government Test Project Management Admin Fielding		2063 680 240			1929 101 1567			150 147					
SUBTOTAL		2983			3597			297					
Total Flyaway		8987			9310			1190					
Support Cost Peculiar Support Equipment Launcher (N/S) Training Device (B/S) DMPE Engineering Change Orders Other (Specify) FDT		108			75								
SUBTOTAL SUPPORT COST		108			75								
Gross P-1 End Cost Less: Prior Year adv Proc Net P-1 Full Funding Cost		9095 9095			9385 9385			1190 1190					
Plus P-1 CY Adv Proc. Other non P-1 Costs Initial Spares MODS		41319			2311 16			5410 61061			6595 62478		
TOTAL		50414			11712			67661			69073		

ppropriation / Budget Activity/Serial No:		Weapon System	Type:		P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Other Missiles			,				SYSTEM SUMMA	RY (C593	00)	
BS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Iss Date
Y 1996	Hughes Aircraft Tucson, AZ	SS/FFP	АМСОМ	Aug-96		N/A	N/A		N/A	N/A
Y 1997 Inal Disposition of Excess Equipment	Hughes Aircraft Tucson, AZ	TBD*	АМСОМ	TBD	N/A	N/A	N/A	N/A	N/A	N/A
Y 1998 inal Disposition of Excess Equipment	Hughes Aircraft Tucson, AZ	TBD	AMCOM	TBD	N/A	N/A	N/A	N/A	N/A	N/A
*Plans not finalized for plant cl	osure and material disposition.									<u> </u>

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COST ELEMENTS			V				Т	V	С	N	В	R	R	Υ	Ν	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	R
TOW 2 Missile	1	FY95&PRIOR	Α	42735	35297	7438	1070				1000	1188			1000			589	600	600	541										850
	1	FY95&PRIOR	FMS	7702	3933	3769						1047					1665	11						1046							
	1	FY 96	FMS	4865	835	4030																				1183					2847
	1	FY 97	FMS	3231	0	3231																									3231
	1	FY 98	FMS	2693	0	2693																									2693
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		Exhibit P-4	10, Budget	ltem Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	iture:					
MISS	SILE PROCUREMENT / 5	/ Support Equipme	nt and Facilities					MISSILE	DEMILITARIZATION	I (HL2000)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
				Α								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	1.6	1.5	1.5	1.5	1.4	1.4	1.5	1.5	0.0	12.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.6	1.5	1.5	1.5	1.4	1.4	1.5	1.5	0.0	12.0
Initial Spares												
Total Proc Cost	0.0	0.0	1.6	1.5	1.5	1.5	1.4	1.4	1.5	1.5	0.0	12.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description: The Missile Demilitarization Program provides for the demilitarization of U.S. Army missiles and missile components that are obsolete or excess to Army requirements following the guidelines of the Resource Conservation and Recovery Act.

Justification: The backlog of missiles requiring demilitarization is a growing concern of the Department of the Army. Changes during the past few years in the world wide political environment have resulted in drastic changes in military strategies. Reduced requirements of prepositioned military forces, retrograde of weapon system assets from Europe and major changes in war reserve planning have placed a tremendous strain on the CONUS wholesale storage base. Currently there are some 52,000 missiles and 100,000 missile components utilizing 99 premium storage igloos that require demilitarization. Specifically, the funding in FY99 will continue the process of demilitarization of priority one (obsolete, excess, environmental concern and using valuable storage space) missiles, i.e., Shillelagh.

Exhibit P-5, Weapon Missiles Cost Analysis		Appropriation/ Bu MISSILE PRO Equipr		T / 5 / Support			m Nomenclature: DEMILITARIZAT	ION (HL2000)		Weapon System	Туре:	Date: Febr	uary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	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
SHILLELAGH		1,080	7,560	0	750	6,174	0	758	5,500	0	785	5,600	(
SS-11 Environmental Assessment		24			166	3,165	0	191	3,272	0			
NIKE-HERC					121	200		335	494		245	353	
REDEYE		200	432	0	5	48	0						
ROLAND Environmental Assessment		24			68	100		50	100	1	123	237	•
HAWK Environmental Assessment		24			75	67		56	100	1	147	220	
CHAPARRAL Environmental Assessment		24			98	120					166	225	
TOW Motors					246	29,356	0						
MISC Demil		267						76					
TOTAL		1,643			1,529			1,466			1,466		

		Exhibit P-4	I0, Budget	ltem Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	iture:					
MISS	ILE PROCUREMENT / 5	/ Support Equipmen	nt and Facilities					PRODUCT	TION BASE SUPPOR	RT (CA0100)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												_
Gross Cost	591.9	3.6	2.8	1.7	3.3	3.3	3.6	3.5	3.8	3.8	0.0	621.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	591.9	3.6	2.8	1.7	3.3	3.3	3.6	3.5	3.8	3.8	0.0	621.2
Initial Spares												
Total Proc Cost	591.9	3.6	2.8	1.7	3.3	3.3	3.6	3.5	3.8	3.8	0.0	621.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides for Production Support and Equipment Replacement (PSR) of Government owned equipment used in production and production testing of missile systems or missile components. Funds are used to establish, modernize, expand or replace Army-owned industrial facilities.

JUSTIFICATION: The FY99 request includes replacement/rehabilitation of existing equipment or instrumentation and modernization of test facilities at the Redstone Arsenal Technical Test Center and White Sands Missile Range. It is also essential in sustaining the Army's missile warhead production capability, eliminating safety hazards, etc., at the lowa Army AMMO Plant.

		Exhibit P-4	I0, Budget	Item Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	/Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other Mi	issiles					M	LRS ROCKET (C654	00)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	478398		1326	1500	528	426	432	390	300	1200	·	484500
Gross Cost	3533.9	35.4	44.6	45.3	19.3	16.5	17.3	18.4	24.5	59.7	0.0	3815.0
Less PY Adv Proc	429.4											429.4
Plus CY Adv Proc	449.8											449.8
Net Proc (P-1)	3554.2	35.4	44.6	45.3	19.3	16.5	17.3	18.4	24.5	59.7	0.0	3835.3
Initial Spares												
Total Proc Cost	3554.2	35.4	44.6	45.3	19.3	16.5	17.3	18.4	24.5	59.7	0.0	3835.3
Flyaway U/C	0.007		0.033	0.030	0.035	0.037	0.039	0.045	0.079	0.049		
Wpn Sys Proc U/C	0.007		0.034	0.030	0.037	0.039	0.040	0.047	0.082	0.050		

DESCRIPTION: The Extended Range Multiple Launch Rocket System (ER-MLRS), which began production in FY96, includes a tube-launched, spin stabilized, free flight rocket. Major assemblies of the rocket are a fuzed warhead, a rocket motor, four fins, a fin opening/restraint device, and four sabots. The rocket is packaged in a six rocket pod and can be fired one at a time or in ripples of two to six. The ER-MLRS rocket will enhance the capability of the existing MLRS rocket by providing improvements in range, accuracy and effectiveness, and maneuver force safety (improved submunitions with self destruct fuzes). Starting in FY 02, the Guided Multiple Launch Rocket System (GMLRS) will integrate a guidance and control package into the ER-MLRS rocket which will result in reduced mission time and increased survivability of the system.

JUSTIFICATION: The objective system provides counterfire and suppression of enemy air defenses, light materiel, and personnel targets. The increased range gives positioning flexibility and improves lateral ranging of targets on tomorrow's wider battlefronts. Operation Desert Storm identified the need for increased range to defeat long range targets. ER-MLRS will accomplish this mission. The GMLRS will provide greater range and significantly enhanced accuracy. Since fewer rockets will be required to defeat a target, the logistics burden will be reduced.

* Quantities were corrected after the P-1 database locked because of recent revisions to Submunition Costs, and projected FMS cases did not materialize.

Exhibit P-5, Weapon Missiles Cost Analysis		Appropriation/ Bu	-	/Serial No: 2 / Other Missiles			m Nomenclature:	GE ROCKET		Weapon System	Type:	Date: Febr	uary 1998
Missiles	ID		FY 96			FY 97	(C65402)		FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
OOST ETERNICITES		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
FLY-AWAY COSTS													
HARDWARE													
Tactical/Practice Round (Less GFE) Submunition Engineering Services Engineering Change Orders Fielding		22451 12067 8561	1326 686868	16931 18	32300 9012 2767 11	1500 777000	21533 12	12232 3282 1502 205 230	528 273504	23167 12	10136 2869 1533 258 132	220668	23793 13
SUBTOTAL		43079			44090			17451			14928		
PROCUREMENT SUPPORT													
Project Management Admin Test & Evaluation Service Support Contract		450 973 105			620 500 108			1036 730 110			1051 422 112		
SUBTOTAL		1528			1228			1876			1585		
Gross P-1 End Cost Less: Prior Year Adv Proc		44607			45318			19327			16513		
Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc Other Non P-1 Costs Initial Spares Mods TOTAL		44607 44607			45318 45318			19327 19327			16513 16513		

Exhi	bit P-5a, Budget Procurement								February ²	1998
opropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Other Missiles						MLRS EXT	ENDED RANGE RO	OCKET (C	65402)	
BS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Is Date
scal Years		and Type			Delivery	Each	\$	Now?	Avail	
actical/Practice Round (Less GFE)										
Y 96	Lockheed Martin Vought Sys., Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Aug-96	Jan-98	1326	16931	Yes		
Y 97	Lockheed Martin Vought Sys., Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM		May-98	1500	21533	Yes		
Y 98	Lockheed Martin Vought Sys., Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Jul-98	Dec-99	528	23167	Yes		
7 99	Lockheed Martin Vought Sys., Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM		May-00					
EMARKS: No Tactical Rockets procured in FY	05									
No ractical Nockets procured in FT	30.									

FY 98 / 99 BUDGET PRO	אוומ	TION SO	HED	III E			P-1	Item N	lome			TENI	DED R	ANGE	POCI	/ET /	C654	12)					Dat	e:			Eob	ruary 1	1008		
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Tactical/Practice Round (Less GFE)	1	94 & Pr	Α	477396	477396			\Box																							
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		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	/Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other Mi	issiles					MLI	RS LAUNCHER (C65	900)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	734	20			35	24	54	71	90	140	442	1610
Gross Cost	1763.6	130.5	81.1	103.6	118.7	85.4	142.9	175.7	198.7	279.3	1074.1	4153.6
Less PY Adv Proc	54.5							15.7	22.4	33.1	68.9	194.6
Plus CY Adv Proc	56.9						15.7	46.4	40.9		37.1	197.0
Net Proc (P-1)	1766.0	130.5	81.1	103.6	118.7	85.4	158.6	206.4	217.3	246.2	1042.3	4156.0
Initial Spares	141.8	12.0	5.1		1.0	6.9	6.1	10.5	12.6	12.4		208.4
Total Proc Cost	1907.8	142.5	86.2	103.6	119.7	92.2	164.7	216.8	229.9	258.6	1042.3	4364.3
Flyaway U/C	2.2	5.8	2.1	2.3	3.6	3.6	2.7	2.5	2.3	2.1	2.4	
Wpn Sys Proc U/C	2.4	6.5	2.8	3.0	3.4	3.6	2.9	2.9	2.4	1.8	2.4	

DESCRIPTION: The Multiple Launch Rocket System (MLRS) provides a high volume of fire power in a very short timeframe. Operationally, the concept is designed for the mobility, flexibility, and range requirements of the modern battlefield. Mounted on a derivative of the Bradley Fighting Vehicle (BFV), the 12-round launcher/loader requires a crew of three personnel to conduct launching missions. The range, using the Extended Range rocket, is 45 kilometers. Starting in FY 98 an Improved Fire Control System (IFCS) and an Improved Launcher Mechanical System (ILMS) will be procured and become part of the M270A1 upgrade. The IFCS is a modification to the current Fire Control System which provides the interface with the Fire Direction Center, the Munitions Controls and the MLRS Launcher. The IFCS will upgrade the system's electronics providing increased processing capability, an embedded global positioning system for future munitions and improved fault isolation for ease of launcher maintenance. The ILMS will allow faster target engagement on time sensitive, short dwell time targets and greatly reduces time on the firing point and reload operations in order to improve the survivability of the crew and the launcher. FY 96 and FY 97 funds provide for remanufactured launchers. FY 98 and out quantities are for M270A1 upgrades. The M270A1 upgrades are needed to fire the Block 1A ATACMS missile. FY 98-03 funding also includes five batteries of rebuilt launchers for deployment to MLRS Heavy Divisions. FY99 funds buy 24 M270A1 launchers.

JUSTIFICATION: The objectives of the system are counterfire and suppression of enemy air defenses, light materiel, and personnel targets. The system is designed for adaptation to other warheads such as scatterable mines, terminally guided munitions, and other smart munitions. MLRS is the Army's rocket launch platform for the next decade. The IFCS provides faster response times for high priority targets, enhances survivability, supports attack operations, mitigates electronic hardware obsolescence and reduces operating and support costs. The ILMS decreases stow to aim point timeline, enhances effectiveness in engaging and supporting the force, and increases MLRS platform survivability.

Exhibit P-5, Weapon Missiles Cost Analysis		Appropriation/ Bud MISSILE PROCU	-	//Serial No: 2 / Other Missiles			m Nomenclature: .RS LAUNCHER ((C65900)		Weapon System	Type:	Date: Febr	uary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
GROUND EQUIPMENT HARDWARE													
Launcher* Carrier (GFE) Launcher Pod/Container (LP/C) Trainer 2x9 Launcher Peculiar Support Equipment Engineering Services Engineering Change Orders Fielding SUBTOTAL		12185 3609 1132 20196 26791 77 8014	29 29 58	420172 124448 19517	13780 7348 1405 9917 17762 38720 6400	35 35 70	393714 209943 20071	63977 766 21772 11906 10857 500	35 70		47053 4160 526 20885 516 3245 76385	24 48	1960542 173333 10958
PROCUREMENT SUPPORT													
Project Management Admin Service Support Contract		8200 889			7341 892			7418 1514			7474 1528		
SUBTOTAL		9089			8233			8932			9002		
Gross P-1 End Cost Less: Prior Year Adv Proc Net P-1 Full Funding Cost		81093 81093			103565 103565			118710 118710			85387 85387		
Plus: P-1 CY Adv Proc Other Non P-1 Costs (Mod Spares) Initial Spares Mods TOTAL		2051 5077 27475 115696			1829 6397 111791			991 998 2129 122828			622 6862 2193 95064		
* Launchers in FY96 and FY97 are remanufact	ured	hardware.											

Exhibi	it P-5a, Budget Procurement	History a	nd Planning						February 1	1998
propriation / Budget Activity/Serial No:	-	Weapon Syst			P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Other Missiles						М	LRS LAUNCHER (0	C65900)		
SS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
cal Years		and Type			Delivery	Each	\$	Now?	Avail	
uncher M270										
95	Lockheed Martin Vought Sys, Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Mar-95	Nov-96	20	1826400	Yes		
uncher Remanufacture										
′ 96	Lockheed Martin Vought Sys, Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Aug-96	May-97	29	420172	Yes		
97	Lockheed Martin Vought Sys, Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Nov-96	Nov-97	35	393714	Yes		
uncher M270A1										
98	Lockheed Martin Vought Sys, Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Mar-98	Apr-00	35	1827914	Yes		
′ 99	Lockheed Martin Vought Sys, Dallas, TX	SS/FFP	PEO-Tactical Missiles/MICOM	Jan-99		24	1960542	Yes		
			6; contract with Lockheed Ma							l

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		Exhibit	P-43, Sim	ulator and	d Training	Device J	ustificati	on		February 1998	
ppropriation / Budget A	Activity/Serial No.			P-1 Item Nomencla		-		Other Related Prog	ram Elements:		IOC Date:
MISSILE F	PROCUREMENT / 2 / Other Mis	siles		MLF	S LAUNCHER (C65	5900)					Mar-01
Training Device by Type	, Site	Delivery Date	Ready for Training Date	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Maintenance	Redstone Arsenal, AL	Sep-00	1			2/\$2000	2/\$2000		2/\$2000		
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The MLRS Launcher Maintenance Trainer is used by the Ordnance Missile and Munitions Center and School (OMMCS) to provide training in troubleshooting and maintenance procedures for the MOS 27M. The trainer consists of a classroom station to provide computer controlled troubleshooting simulations, a Launcher Loader Module (LLM) mockup to provide hands-on maintenance training (remove/replace) and an Electronics Repair Station to provide training in Automated Test Equipment (ATE) and off-launcher repair. Trainer density increases with M270A1 fielding requirements.

		Exhibit P-4	I0, Budget	Item Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other Mi	ssiles					ARMY TACTICAL N	ISL SYS (ATACMS)	- SYS SUM (C98510	0)	
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1449	148	120	97	100	96	110	100				2220
Gross Cost	912.4	110.5	120.8	135.3	93.5	90.6	94.6	89.9	15.0	7.3	0.0	1669.9
Less PY Adv Proc	75.1											75.1
Plus CY Adv Proc	75.1											75.1
Net Proc (P-1)	912.4	110.5	120.8	135.3	93.5	90.6	94.6	89.9	15.0	7.3	0.0	1669.9
Initial Spares	2.3			1.0	0.9							4.2
Total Proc Cost	914.7	110.5	120.8	136.3	94.5	90.6	94.6	89.9	15.0	7.3	0.0	1674.1
Flyaway U/C	0.6	0.7	0.9	1.4	0.9	0.9	0.9	0.9				0.7
Wpn Sys Proc U/C	0.6	0.7	1.0	1.4	.9	.9	.9	.9				.8

DESCRIPTION: The Army TACMS is a ground-launched missile system consisting of a surface-to-surface guided missile with an anti-personnel anti-materiel (APAM) warhead. The Army TACMS Block IA integrates global positioning system (GPS) components and increases the range of the Block I missile. The inherent GPS accuracies will be achievable independent of range. Army TACMS missiles are fired from the Multiple Launch Rocket System (MLRS) modified M270 launcher and are being deployed within the ammunition loads of corps MLRS battalions and/or division artillery MLRS batteries. Army TACMS includes Guided Missile and Launching Assembly; Test Set, Guided Missile System; Training Set, Guided Missile System: M-165; Trainer, Test Device, Guided Missile: M70; Modified M270 Launcher; and the Army TACMS Missile Facilities (ATMF).

JUSTIFICATION: The Army TACMS is air transportable and provides a deep fire missile system that operates in near all-weather conditions, day or night. It is used to attack tactical surface-to-surface missile sites, air defense missile sites, logistics elements and command/control/communications complexes. The Block IA missile will destroy high value targets at ranges approximately twice that of the current Block I. The Block IA will be especially suited for destroying enemy surface-to-surface missile system launchers.

FY99 funds will buy 96 ATACMS Block 1A missiles. FY97 includes a \$43.7M reprogramming; when approved the funding will buy an additional 60 missiles, raising the FY99 quantity to 157.

Exhibit P-5, Weapon		Appropriation/ Bu	-	/Serial No: 2 / Other Missiles			m Nomenclature: SSYSTEM SUMM	ARV (C08510)		Weapon System	Type:	Date:	uary 1998
Missiles Cost Analysis		WISSILE PROCU	REIVIEIN I / Z	2 / Other Missiles		ATACINIS	S TS TEIN SOIMIN	ART (096510)		Mis	ssile	Геы	ualy 1996
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Missile Hardware- Recurring		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Prime Contract * GFE		74504	120	621	106638	97	1099	71600 128	100	716	68064 100		709
Flight Kits		378			1682			1848			1850		
Engineering Services		16631			14806			4479			6500		
Engineering Change Orders (ECOs)		2206			906			869			568		
Fielding		579			110			550			200		
Subtotal Missile Hardware		94298			124142			79474			77282		
Procurement Support													
Project Management		5599			4412			4138			3820		
Production Engineering Support		8731			4607			5523			5114		
Test and Evaluation		4546			1811			3712			3579		
Subtotal Procurement Support		18876			10830			13373			12513		
TOTAL MISSILE FLYAWAY		113174			134972			92847			89795		
Command & Launch Integration													
Command & Launch Integration Spt		1343			339			690			790		
Subtotal C&L Integration		1343			339			690			790		
Support Cost													
Missile Test Device		2758											
ATMF Test and Support Equipment		3528											
Subtotal Support Cost		6286											
Gross P-1 End Cost		120803			135311			93537			90585		
Less: Prior Year Adv Proc Net P-1 Full Funding Cost		120803			135311			93537			90585		
PLUS P-1 CY Adv. Proc.		120803			135311			93537			90585		
Other Non P-1 Costs													
Initial Spares					963			943					
MODS					000			0.10					
TOTAL		120803			136274			94480			90585		
*FY97 advance proc (\$43.735) awaiting													
congressional approval for transfer.													
Upon approval, transferred \$ will procure													
60 additional ATACMS msls.													

Exhi	bit P-5a, Budget Procuremer	nt History a	and Planning						February 1	1998
Appropriation / Budget Activity/Serial No:		Weapon Syst	tem Type:		P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT/2/Other Missiles			Missile		AR	MY TACTICAL	MSL SYS (ATACM	S)-SYS S	UM (C985	510)
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
Army TACMS Block I Missile										
=Y 96	LMVS, Dallas, TX	SS/FP	МІСОМ	Nov-95	Mar-97	50	664	Yes		
Army TACMS Block IA Missile										
FY 96	LMVS, Dallas, TX	SS/FP	МІСОМ	Jun-96	Aug-97	70	590	Yes		
FY 97	LMVS, Dallas, TX		MICOM	Apr-97	May-98	97	648			
FY 98	LMVS, Dallas, TX		MICOM	Apr-98	May-99	100	716			Sep-9
FY 99	LMVS, Dallas, TX	SS/FP	MICOM	Oct-98	Mar-00	96	709	Yes		Sep-9
remarks: ⊢Y 98 buy LLTI award date - Dec 98										
1 90 bdy LETT award date - Dec 90										

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							T	٧	c	N	В	R	R	Υ	Ν	L	G	P	T	٧	C	N	В	R	R	Υ	N	Ĺ	Ğ	P	
M		Р	RODUCTI	ON RATES		REACHED		FR							MIN L					MFR			TOTA			EMAF					100
R NAME / LOCATION		MIN.	1	-8-5	MAX.	D+	INUI	nber	INITIA	AL.			PI	rior 1 C	JCT.	At	ter 1 (JCT.	AI	ter 1 (JUI.	A	ter 1 (ning ra		120 per at
1 LMVS, Dallas, TX		*10		38	48	15				RDER							1			16			17						sk, a re		
				_					INITIA																pro	uuctio	ıırate	can D	e acco	iiiin00	uated
+			}		+	1			REO	RDER			-						H			H			1						
										RDER															1						
				_					INITIA																1						
+			}		+	1			REO!	RDER AL									\vdash			\vdash			1						
					1		1			RDER															1						

		Exhibit P-4	40, Budget	ltem Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	/Serial No:					P-1 Item Nomencla	ture:	-				
	MISSILE PROCUREMEN	NT / 3 / Modification	of Missles					1	MLRS MODS (C6750	00)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	169.9	29.3	27.5	6.4	2.1	2.2	2.2	5.2	4.3	5.2	0.0	254.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	169.9	29.3	27.5	6.4	2.1	2.2	2.2	5.2	4.3	5.2	0.0	254.3
Initial Spares	9.4	1.3	2.1	1.8	1.0	0.6	0.5	0.9	0.9	0.9		19.3
Total Proc Cost	179.3	30.6	29.5	8.2	3.1	2.8	2.7	6.1	5.2	6.1	0.0	273.6
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: N	Modification kits	oro procur	od for provi	oucly manuf	actured Multin	do Launch D	acket System	o (MLDS) los	inchare and	the accoria	tod training a	ad around

DESCRIPTION: Modification kits are procured for previously manufactured Multiple Launch Rocket System (MLRS) launchers and the associated training and ground support equipment. The following page provides a list of approved modifications.

JUSTIFICATION: The FY99 program funds a Fire Suppression Change, Interim Improved Position Determining System Launcher, and Obsolescence Mitigation/Engineering Change Proposal Reliability Integration.

Exhibit F	P-40M Budget I	tem Justific	ation Sheet			Date		February 1998		
Appropriation / Budget Activity/Serial No.				P-1 Item Nomenclati	ıre					
MISSILE PROCUREMENT / 3 / Modifica	ation of Missles					M	LRS MODS (C6750	0)		
Program Elements for Code B Items		Code	Other Related Progr	am Elements						
Description	Fiscal Years									
OSIP NO. Classification	FY 96 & Pr	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Improved Electronic Unit (IEU) (No P3a Se	•									
1-84-03-0502	71.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		71.6
Launcher Loader Module Improvements (L	•									
1-85-03-0508	33.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0		33.5
Carrier Improvements Phase IV										
1-94-03-0520	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0		4.5
Transmission Electronic Controller (TEC)										
1-94-03-0522	26.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0		27.0
Fire Suppression Change										
1-94-03-0525	0.0	0.9	1.9	0.1	0.2	0.2	0.0	0.0		3.3
Interim IPDS Launcher										
1-94-03-0528	16.3	3.3	0.0	1.3	1.2	1.2	1.2	1.2		25.7
Interim MS Launcher (No P3a Set)										
1-94-03-0529	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9.9
Hoist Carriage Assembly (No P3a Set)										
1-95-03-0530	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.7
Selective Availability Anti-Spoofing Module	e (SAASM) (No	P3a Set)								
1-97-03-0534	0.0	0.0	0.0	0.0	0.4	2.9	0.0	0.0		3.3
JTA-A (No P3a Set)										
1-98-03-0537	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.8		4.9
Obsolescence Mitigation/ECP Reliability Ir	ntegration (No P	3a Set)								
1-95-03-Obsc	3.3	0.7	0.2	0.8	0.4	0.9	1.0	1.2		8.5
										3.0
Totals	167.3	6.4	2.1	2.2	2.2	5.2	4.3	5.2		194.9

INDIVIDUAL MODIFICATION Date February 1998 Launcher Loader Module Improvements (LLM) 1-85-03-0508 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) DESCRIPTION / JUSTIFICATION: This modification retrofits fielded vehicles for the following: Adds new metal blast panels to prevent damage to front launcher cage structule and blast doors; installs new environmentally sealed limit switches; welds in stiffening plate to motor pump assembly; provides moisture tight cover to the azimuth resolver; and adds support lugs and welds and adds a reinforcement to the aft corner post. These improvements are required to correct operational deficiencies identified during Operational Test III and subsequent fielding. This modification accomplishes retrofit of the fielded vehicles as part of the Block Mod Effort in conjunction with the hoist improvement. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Development complete - incorporated into current production. Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 3 433 Inputs Outputs 433 FY 2002 FY 2003 FY 2004 FY 2005 Totals Complete 433 Inputs 433 Outputs METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Depot Field App Contract Dates: FY 1997 FY 1998 FY 1999 FY 1997 FY 1998 FY 1999

Delivery Date:

					IN	idividu <i>i</i>	AL MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		La	unche	er Load	er Mo	dule (L	.LM) Ir	nprove	ments	1-85-0	03-050)8								
FINANCIAL PLAN: (\$ in Millions																				
		1996																		
		Prior		1997		1998		1999		2000		2001		2002		2003		rc 🏚	TO	
Í	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	433	22.0																	433	22.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment Support Equipment				0.2																0.2
Other				0.2																0.2
Interim Contractor Support																				
internii Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits	433	11.3																	433	11.3
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits FY 2002 Eqpt kits																				
FY 2002 Eqpt kits FY 2003 Eqpt kits																				
TC Equip-Kits																				
Total Installment	433	11.3																	433	11.3
Total Procurement Cos	+55	33.3		0.2			-		 										400	33.5

INDIVIDUAL MODIFICATION Date February 1998 Carrier Improvements Phase IV 1-94-03-0520 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) DESCRIPTION / JUSTIFICATION: This modification is a consolidation of nine (9) Class I Engineering Change Proposals addressing reliability, availability, maintainability, and dependability (RAM-D). Improvements include the addition of a fuel system heater valve, improved cab ventilation duct system, speedor relocator, and a gas particulate filter unit plug for the nuclear biological chemical heater. This modification also corrects four (4) safety hazards by improving the commander's work station, adding a map light for tactical conditions, and provides measures to prevent the existing engine compartment fire extinguisher from being inadvertently discharged. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Development complete - incorporated into current production. Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 1 3 706 75 70 Inputs Outputs 698 145 FY 2002 FY 2003 FY 2004 FY 2005 Totals Complete 851 Inputs 851 Outputs METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Depot Field App 8 Months 6 Months Contract Dates: FY 1997 FY 1998 FY 1999

FY 1999

FY 1998

FY 1997

Delivery Date:

					IND	IVIDUA	L MOD	IFICATIC	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Ca	arrier Ir	mprove	ments	Phas	e IV 1	-94-03	-0520											
FINANCIAL PLAN: (\$ in Millions)	EV.	1000	1																	
		1996 Prioi	FV	1997	FY 1	998	FY	1999	FV	2000	FY	2001	FY	2002	FV :	2003	Г т	C	ТОТ	ΓΔΙ
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT Kit Quantity																				
Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring	706	1.1	145	0.2															851	1.3
Engineering Change Orders Data Training Equipment Support Equipment Other																				
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits	698	2.4	8 145																706 145	
FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits Total Installment	698	2.4	153																851	3.2
Total Procurement Cos		3.5		1.0																4.5

INDIVIDUAL MODIFICATION Date February 1998 Transmission Electronic Controller (TEC) 1-94-03-0522 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) DESCRIPTION / JUSTIFICATION: The TEC, which is an automatic electronically controlled transmission, upgrades the previous hydromechanical transmission. The benefits of the TEC modification are increased power availability, ability to tow in neutral, decreased maintenance, improvements in slope capability, shift synchronism, fuel consumption, cold temperature performance, and maneuverability in restricted areas. Through the modification of the MLRS fleet of vehicles, this will allow a commonality of transmissions between all vehicle subsystems for the M270 MLRS. The equipmen buy includes 100 spares. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Development complete - incorporated into current production. Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 Totals 1 3 690 13 Inputs Outputs 590 FY 2002 FY 2003 FY 2004 FY 2005 Totals Complete 703 Inputs 603 Outputs METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Contractor 6 Months 3 Months Contract Dates: FY 1998 FY 1999 FY 1997

FY 1999

FY 1998

FY 1997

Delivery Date:

					IND	IVIDUA	L MOD	IFICATIO	N							Date		Febru	ary 1998	
MODIFICATION TITLE (Cont):		Tra	ansmis	ssion E	lectron	ic Co	ntrolle	r (TEC) 1-94-	03-052	22									
FINANCIAL PLAN: (\$ in Millions)	EV.	1000	ſ																	
		1996 Prioi	FY	1997	FY 19	998	FY	1999	FY	2000	FY	2001	l FY	2002	FY:	2003	Т т	C	TO	ΓΑΙ
	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	690	19.2		0.2															703	19.4
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits	590	7.5	13	0.1															590 13	7.5 0.1
Total Installment	590	7.5	13	0.1															603	7.6
Total Procurement Cos	300	26.7		0.3															000	27.0

INDIVIDUAL MODIFICATION Date February 1998 MODIFICATION TITLE: Fire Suppression Change 1-94-03-0525

MODELS OF SYSTEMS AFFECTED: MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)

DESCRIPTION / JUSTIFICATION:

The purpose of this modification is to comply with Department of Defense Directive 6050.9 for the elimination of chloroflurocarbons and halons. The objective of this modification is to identify and eliminate all ozone depleting chemicals and all ozone depleting substances. The initial phase of this program directs modification of mounting brackets to allow CO2 bottles to be used in lieu of the current 2.75 pound halon bottles. Swap-out for the hand-held bottles is being done by the U.S. Army Tank-Automotive and Armaments Command and began 2Q97. The second phase will direct the modification and/or conversion of the 7 pound engine compartment halon bottle to an alternative substance. FY97 buys hand-held fire extinguishers with a 4 month production lead time. FY98 buys fixed fire extinguishers with a 12 month production lead time.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Will be incorporated into production.

Installation Schedule	<i>:</i> :																				
I	Pr Yr	1	FY 19	997			FY 1	998			FY 19	999			FY 20	.000			FY 2	2001	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	
Inputs		i	100	300	457			100	100	100	100	100	100	100	100	69		ĺ			
Outputs	ļ	i	4	70	301	209	138	79	56	49	9	9	20	112	112	82	59	157	135	125	
		FY 2	2002	$\overline{}$	í	FY 2	2003	\neg		FY 20	004	\Box		FY 20	.005			То	í	7	Totals
i	1	2	3	4	1 1	2	3	4	1	2	3	4	1	2	3	4	Cr	omplete	4		
Inputs				,	1			,								, -	ſ		1		172
Outputs		, 1		, J	i			, J								, J	1	J	1		172
METHOD OF IMPLE	MENTATIO	ON:	Depot F	ield Ap	_/ р	ADMIN'	IISTRATI	IVE LE/	ADTIME	:	4 N	Months	-	PRODU	CTION	LEADT	īME:	12	Months		
Contract Dates:			FY 1997	7				FY 1998	8					FY 1999	3						
Delivery Date:			FY 1997	7				FY 1998	8					FY 1999	J						

				IND	IVIDUA	L MODII	FICATIO	N							Date		Febru	uary 1998	
MODIFICATION TITLE (Cont):	Fi	re Sup	pressic	n Char	nge 1-	94-03-	0525												
FINANCIAL PLAN: (\$ in Millions	EV 1006	7																	
	FY 1996 and Prior	FY	1997	FY 19	998	FY 1	1999	FY	2000	FY	2001	FY	2002	FY 2	2003	1 7	ГС	ТО	ΓΑΙ
	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		857	0.8	869	1.7	,												1726	
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits		375	0.1	482	0.2	87	0.1	365	0.2	417	0.2							857 869	0.3 0.5
Total Installment		375	0.1	482	0.2	87	0.1	365	0.2	417	0.2					İ		1726	0.8
Total Procurement Cos			0.9		1.9		0.1		0.2		0.2								3.3

INDIVIDUAL MODIFICATION Date February 1998

MODIFICATION TITLE: Interim Improved Position Determining System (IPDS) Launcher 1-94-03-0528

MODELS OF SYSTEMS AFFECTED: MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)

DESCRIPTION / JUSTIFICATION:

A special interim launcher configuration is required to allow the current M270 platform to fire all of its existing fielded M270 Family of Munitions and incorporate a new requirement to fire the Block IA, Army Tactical Missile System (TACMS). The Block IA missile will be fielded in 1QFY98 and will require Global Positioning System (GPS) interface at time of launch. This modification must be accelerated because the pre-planned product improvement for GPS was not planned until the fielding of the Position Navigational Unit with the Improved Fire Control System in FY 00. The modification will incorporate the IPDS Line Replaceable Unit, a GPS antenna, associated cabling with armor protection, hoist bumper pads, a modification to the existing M68 Missile/Launch Pod Assembly trainer, and sufficient Random Access Memory, with the Non Volatile Memory Module to support the software loaded into the Improved Electronic Unit.

Installation is included in the cost of the modification kit.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Will be integrated into launchers as an interim program in support of Army TACMS Block 1A.

	Pr Yr		FY	1997			FY 1	998			FY 19	999			FY 2	2000			FY 20	01	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3	4 1	2	3	
Inputs	29			6																	
Outputs							10	20	5												
		FY 2	2002			FY 2	2003			FY 2	004			FY 2	2005			То		Tot	tals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		4	Complete			
Inputs																					3
Outputs																					3
METHOD OF IMPL	EMENTATIO	DN:	Contra	ct		ADMIN	ISTRATI	VE LEAD	OTIME:		6 N	/lonths		PRODL	JCTION	LEAD	TIME:	: 12	Months		
Contract Dates:			FY 199	7				FY 1998						FY 199	9						
Delivery Date:			FY 199	7				FY 1998						FY 199	q						

					IND	DIVIDUA	AL MOD	IFICATIO	N							Date		Februa	ary 1998	
MODIFICATION TITLE (Cont):		Int	erim I	mprove	d Posi	tion D	eterm	ining S	System	n Laund	cher 1	-94-03·	-0528							
FINANCIAL PLAN: (\$ in Millions)	EV.	4000	1																	
		1996 I Prioi	FY	1997	FY 1	998	l FY	1999	FY	2000	FY	2001	FY	2002	FY 2	2003	-	ГС	TOT	ΤΑΙ
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			-	
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	29	16.1	6	1.9															35	18.0
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support		0.2		1.4				1.3		1.2		1.2		1.2		1.2		1.2		8.9
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits																				
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
TC Equip-Kits																				
Total Installment		40.0		2.0				4.0		4.0		1.0		4.0		4.0		4.0		20.0
Total Procurement Cos		16.3		3.3				1.3		1.2		1.2		1.2		1.2		1.2		26.9

INDIVIDUAL MODIFICATION February 1998 Obsolescence Mitigation/Engineering Change Proposal Reliability Integration 1-95-03-Obsc MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) DESCRIPTION / JUSTIFICATION: Technology obsolescence is dictating the replacement of many launcher components. Because of rapid electronic obsolesence, this modification plans for future replacement of launcher electronic components. Circuit Cards in the Line Replaceable Units e.g., Improved Electronic Unit and Fire Control Unit, are already obsolete or rapidly approaching obsolescence. The funding on this program will procure modification kits which will incorporate improved components necessary to replace parts no longer available. In addition, this modificati reestablish the MLRS baseline at the optimal configuration for integration of Improvied Fire Control System and Improved Launcher Mechanical System (MC No. 0519 and 0526) by aiding in the calibration of the system, providing required accuracy levels for new and future munitions, increasing reliability of early configuration of the launcher which reduces operational and support costs, and eliminating noise and multiple software requirements. The removal of minimal or poor performance components that have been identified is considered necessary to assure configuration control and compatibility within technical interfac DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Will incorporate ongoing obsolescence analysis and determination into production. Installation Schedule: Pr Yr FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 3 1 3 **Totals** Inputs Outputs FY 2002 FY 2003 FY 2004 FY 2005 Totals Complete Inputs Outputs METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: Months

FY 1999

FY 1999

FY 1998

FY 1998

Contract Dates:

Delivery Date:

FY 1997

FY 1997

					IN	IDIVIDUA	L MOD	IFICATIO	N							Date	#######	P3a T	emplate	s exist.
MODIFICATION TITLE (Cont):		Ob	soles	cence	Mitiga	tion/Er	nginee	ring Ch	nange	Propos	sal Re	liability	Integ	ration '	1-95-0	3-Obs	С		net	
FINANCIAL PLAN: (\$ in Millions)	- FV	4000	1																	
	and	1996 I Prioi		1997		1998		1999		2000		2001		2002		2003		C	TO	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring		3.3		0.7		0.2		0.8		0.2		0.7		1.0		1.2		28.4		36.5
Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support										0.2		0.2								0.4
Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits																				
FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits Total Installment																				
Total Procurement Cos		3.3		0.7		0.2		0.8		0.4		0.9		1.0		1.2		28.4		36.9

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other Mi	ssiles					А	TACMS/BAT (CA610	11)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						30	80	130	115	190	1261	1806
Gross Cost	0.0	0.0	0.0	0.0	0.0	49.1	66.7	98.8	106.2	174.4	1028.5	1523.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	49.1	66.7	98.8	106.2	174.4	1028.5	1523.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	49.1	66.7	98.8	106.2	174.4	1028.5	1523.6
Flyaway U/C						1.4	0.8	0.8	0.9	0.9	0.8	0.8
Wpn Sys Proc U/C						1.6	.8	.8	.9	.9	.8	.8

DESCRIPTION: The Army Tactical Missile System Block II (ATACMS BLK II), a version of the currently fielded and combat-proven Army TACMS Block I missile, will be a ground launched, solid propellant, inertially guided (Global Positioning System (GPS) aided) missile system with 13 BATs or P3I BATs as its payload. It will be launched from the Multiple Launch Rocket System (MLRS) modified M270A1 launcher and will be deployed within the ammunition loads of corps MLRS battalions and/or division artillery MLRS batteries. The Army TACMS Block IIA (ATACMS Block IIA) will carry 6 BAT P3I submunitions as its payload rather than 12, extending the range. The ATACMS Block IIA will be launched from the M270A1 launcher in response to the same Command and Control (C2) nodes applicable to the Block I, Block IA, and Block II missiles. Since the Block IIA payload only houses 6 submunitions rather than 13, as in the Block II, it is capable of achieving extended ranges comparable to the Block IA. Production funding for the ATACMS Block IIA begins in FY02 for procurement of long lead items.

JUSTIFICATION: The primary mission of the ATACMS BLK II is to delay, disrupt, neutralize, or destroy armored combat vehicles/organization. ATACMS BLK II will carry and dispense BAT and BAT P3I submunitions deep in enemy territory where these submunitions will automatically track and destroy targets. Global Positioning System (GPS) technology will increase accuracy in flight. FY99 will buy 30 ATACMS Block II missiles, and support low rate initial production.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
Missiles Cost Analysis		MISSILE PROCU	JREMENT/	2 / Other Missiles			ATACMS/BAT (CA	A6101)		Mis	ssile	Febr	uary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	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
Missile Hardware- Recurring Prime Contract (Includes Initial Prod Fac)											26979	30	899
Flight Kits Engineering Services Engineering Change Orders (ECOs) Fielding Subtotal Missile Hardware											3254 567 856 394 32050		
Procurement Support Project Management Production Engineering Support Test and Evaluation Subtotal Procurement Support											1661 1985 6428 10074		
TOTAL MISSILE FLYAWAY											42124		
Command & Launch Integration Command & Launch Integration Spt Subtotal C&L Integration											804 804		
Support Cost Missile Test Device Army Tac MsI Fac Test & Spt Equipment Subtotal Support Cost											2560 3595 6155		
Gross P-1 End Cost											49083		
Less: Prior Year Adv Proc Net P-1 Full Funding Cost PLUS P-1 CY Adv. Proc. Other Non P-1 Costs Initial Spares MODS											49083		
TOTAL											49083		

Exi	hibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1998
Appropriation / Budget Activity/Serial No:		Weapon Sys			P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Other Missiles			Missile				ATACMS BLK II (C			
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 Revsn Avail	RFP Iss Date
ATACMS BLK II										
FY 99	LMVS, Dallas, TX	SS/FP	місом	Jan-99	Dec-00	30	899	No		Apr-9
REMARKS:										

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		Exhibit P-4	40, Budget	Item Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:					
	MISSILE PROCURE	MENT / 2 / Other M	issiles						BAT (CA6100)			
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						420	1050	1700	1820	2400	12310	19700
Gross Cost	0.0	0.0	0.0	0.0	0.0	100.4	156.4	204.9	187.7	225.2	989.6	1864.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	100.4	156.4	204.9	187.7	225.2	989.6	1864.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	100.4	156.4	204.9	187.7	225.2	989.6	1864.3
Flyaway U/C						0.2	0.1	0.1	0.1	0.1	0.1	0.1
Wpn Sys Proc U/C						.2	.1	.1	.1	.1	.1	.1

DESCRIPTION: The BAT submunition is an anti-armor, top attack submunition with acoustic and infrared (IR) seekers working in tandem for autonomous attack of operating armored vehicles. The BAT is a guided submunition that searches for, tracks, and destroys armored, mobile targets. The Pre-Planned Product Improvement (P3I) BAT uses millimeter wave, infrared, and acoustic seekers in tandem to attack additional target arrays which include cold stationary or dug-in targets and surface-to-surface missile transporter erector launchers.

JUSTIFICATION: The BAT submunition will be carried deep into enemy territory by the Army Tactical Missile System (ATACMS) Block II. It will be dispensed over numerous high-payoff targets to selectively attack and destroy individual targets. By utilizing acoustic technology, BAT has the advantage of a large footprint which allows it to compensate for target location errors.

Note: BAT is in LRIP in FY99.

Exhibit P-5, Weapon		Appropriation/ Bu	-	/Serial No: 2 / Other Missiles		P-1 Line Ite	m Nomenclature: BAT (CA610			Weapon System	Type:	Date:	uary 1998
Missiles Cost Analysis		WISSILE PROCU	REWENT /	2 / Other Missiles			BAT (CABTO	0)		Subm	unition	Febi	uary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Missile Hardware- Recurring	-	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Prime Contract (Includes Initial Prod. Facil.)											88341	420	21
Engineering Services Engineering Change Orders (ECOs) Fielding											1930		
Subtotal Missile Hardware											90271		
Procurement Support Project Management Production Engineering Support Test and Evaluation Subtotal Procurement Support											3943 4929 1282 10154		
TOTAL MISSILE FLYAWAY											100425		
Support Cost													
Subtotal Support Cost													
Gross P-1 End Cost Less: Prior Year Adv Proc											100425		
Net P-1 Full Funding Cost PLUS P-1 CY Adv. Proc. Other Non P-1 Costs Initial Spares MODS											100425		
TOTAL											100425		

	Exhibit P-5a, Budget Procureme				D 4 11: 11					1998
Appropriation / Budget Activity/Serial No: MISSILE PROCUREMENT/2/Other Mis	silos	Weapon Syst	Submunition		P-1 Line Item	Nomenclature	e: BAT (C	A6100)		
		Contract		T				Specs	Date	RFP lss
VBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Avail	Revsn	Date
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
BAT										
FY 99	Northrop Grumman Hawthorne, CA	SS/FPI	МІСОМ	Jan-99	Jun-00	420	210	Yes		Apr-9
REMARKS:		•							•	

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		Exhibit P-4	l0, Budget	Item Justifi	cation Sheet			Date:		February 1998		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:					•
	MISSILE PROCURE	MENT / 2 / Other Mi	ssiles					AVENGER	R SYSTEM SUMMAR	RY (C14900)		
Program Elements for Code B	Items:			Code:	Other Related Prog			INTED STINGER, C1 E8710 AVENGER MO	5200 AVENGER TR. DDS	AINING DEVICES,		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	773			93		19	19	22	22	21		969
Gross Cost	838.2	62.5	30.5	62.4	7.2	35.3	35.1	35.0	34.8	34.7	0.0	1175.7
Less PY Adv Proc	90.4	32.5										122.9
Plus CY Adv Proc	122.9											122.9
Net Proc (P-1)	870.7	30.0	30.5	62.4	7.2	35.3	35.1	35.0	34.8	34.7	0.0	1175.7
Initial Spares	56.4	4.5										60.9
Total Proc Cost	927.1	34.5	30.5	62.4	7.2	35.3	35.1	35.0	34.8	34.7	0.0	1236.6
Flyaway U/C												
Wpn Sys Proc U/C												<u> </u>

DESCRIPTION: The AVENGER System is a lightweight, highly mobile/transportable surface-to-air missile/gun weapon system mounted on a High Mobility Multi-purpose Wheeled Vehicle (HMMWV). It is operated by a two man crew for defense against helicopters and fixed wing aircraft at low altitude, day or night, and in clear or adverse weather. The system incorporates an operator's position with controls, displays, fire control electronics, and the Standard Vehicle Mounted Launcher (SVML). The SVML includes seeker coolant bottles and related hardware and it supports and launches multiple STINGER missiles. The SVML provides output signals that can be used to display to the gunner exactly where the STINGER is pointed. The driven sight reticule capability aids the gunner in severe background clutter and Electro-magnetic Counter Measure (ECM) environments. The system operates with standard unmodified Basic STINGER, STINGER-POST or STINGER-RMP missiles rounds, and the high rate of fire .50 CAL machine gun. AVENGER fills the Line-of-Sight Rear (LOS-R) role in Forward Area Air Defense Systems (FAADS).

A five year multiyear procurement (MYP) contract for AVENGER began in FY 91. In 1994, Congress agreed to a provision in the FY96 budget that would grant a one year extension, at no additional cost, for extending the delivery schedule of AVENGER multiyear procurement authority so the Marine Corps and other services could take advantage of the Army's contract and favorable pricing terms. The Avenger program received funds in FY 97 to procure the remainder of the multi-year procurement (93 fire units). Additional Fire Units have been funded in FY 00-07 for National Guard requirement. Intent is to field 16 Battalions and 17 enhanced brigades with ANG.

JUSTIFICATION:

AVENGER constitutes the Line-Of-Sight Rear (LOS-R) component of the Forward Area Air Defense System (FAADS), and it is the first FAADS element fielded. NOTE: Congress appropriated \$7.2M in FY 98 on the Avenger System which belongs on Avenger Mods. Specifics for this \$7.2M shown on P-forms for CE8710, line number 14.

Exhibit P-5, Weapon Missiles Cost Analysis		Appropriation/ Bu MISSILE PROCU	-	//Serial No: 2 / Other Missiles			m Nomenclature: R SYSTEM SUMM	MARY (C14900)		Weapon System	Type:	Date: Febr	uary 1998
Missiles	ID		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware- Recurring Drive Hardware Turrent Assembly Army Unapplied EOQ EOQ Diverted to USMC					35208	93	379				20631	19	1086
Command & Launch Hardware Std Veh Mtd Launcher (SMVL) Army Other GFE-Army Only Other (HMMWV)					8823 4669	93 93	165 50				3639 2245 1013	19 19	192 53
SubTotal Hardware					48700	00	00				27528	10	00
Total Driveaway					48700						27528		
Support Cost Peculiar Support Equipment Training Equipment Contractor Engineering Government Engineering Interim Contractor Support Fielding Other (Project Mgt Admin)		2115 14959 2726 2020 2015 6261 436 30532			3304 319 4953 4560 519 13655						2109 1018 2198 2416 7741		
SubTotal Support Cost Gross P-1 End Cost Less: Prior Year Adv Proc Net P-1 Full Funding Cost PLUS P-1 CY Adv. Proc. Other Non P-1 Costs		30532 30532 30532			62355 62355						35269 35269		
Initial Spares MODS		987						7200			8425		
TOTAL		31519			62355			7200			43694		

	Exhibit P-5a, Budget Procurement	History a	nd Planning					Date:	February ²	1998
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	Nomenclatur	e:			
MISSILE PROCUREMENT / 2 / Oth	ner Missiles					AVENGER	(PED MT STINGER			-
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FY 97	Boeing Aerospace Huntsville, AL	SSM-6/FP		Dec-96	May-97	93	379			
FY 99	Boeing Aerospace Huntsville,AL	SS/FP	МІСОМ	Dec-98	Mar-99	20	975	yes		
REMARKS:										

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		Exhib	t P-43, Sim	ulator and	d Training	Device J	Justificati	on		February 1998	
Appropriation / Budget A	Activity/Serial No.			P-1 Item Nomencla	ature			Other Related Prog	ram Elements:		IOC Date:
MISSILE F	PROCUREMENT / 2 / Other	r Missiles		AVENGER	R TRAINING DEVICE	S (C15200)		C14900,C16	6000,CE8710		3QTR88
Training Device by		Delivery	Ready for								
Туре	Site	Date	Training Date	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
ICOFT	Ft Bliss, TX	FY 97	FY 97	8190	5506						
FOFT	NTC/Ranges	FY 97	Jan-00	6769	997						

Description: The training devices being procured and supported for the AVENGER Air Defense Weapon System are essential to establish adequate and cost effective initial entry and sustainment training programs for the AVENGER operators and maintainers.

Justification: This training device program will put in place Institutional Conduct of Trainers (ICOFT) at Ft. Bliss, Texas for operator and leadership training. The Force-on-Force Trainers (FOFT) will support the operator in a field environment for collective training.