TOC

DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
FY 2002 Amended Budget Submission

MISSILE PROCUREMENT, ARMY

APPROPRIATION

June 2001

MISSILE PROCUREMENT, ARMY

For construction, procurement, production, modification, and modernization of missiles, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, $1,859,634,000, to remain available for obligation until September 30, 2004.

Unit Set Fielding TOC

Unit Set Fielding

Notification

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

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

Unit Set Fielding Definition

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

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

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APPROPRIATION SUMMARY

DOLLARS IN THOUSANDS

APPROPRIATION	FY 2000	FY 2001	FY 2002	PAGE
Missile Procurement, Army	1,309,504	1,308,564	1,859,634	3
TOTAL PROCUREMENT PROGRAM	**1,309,504**	**1,308,564**	**1,859,634**	

APPROPRIATION Missile Procurement, Army

DOLLARS IN THOUSANDS

	ACTIVITY	FY 2000	FY 2001	FY 2002	PAGE
02	Other missiles	1,137,147	1,137,360	1,653,995	4
03	Modification of missiles	153,240	142,833	181,241	6
04	Spares and repair parts	11,207	20,595	15,299	7
05	Support equipment and facilities	7,910	7,776	9,099	8
	APPROPRIATION TOTALS	**1,309,504**	**1,308,564**	**1,859,634**	

APPROPRIATION Missile Procurement, Army **ACTIVITY** 02 Other missiles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2000 QTY	FY 2000 COST	FY 2001 QTY	FY 2001 COST	FY 2002 QTY	FY 2002 COST
	SURFACE-TO-AIR MISSILE SYSTEM							
1	PATRIOT PAC-3 (C49200)						72	676574
2	STINGER SYSTEM SUMMARY (C18500)	A					497	45890
3	AVENGER SYSTEM SUMMARY (C14900)		15	34216	6	29527		11624
	SUB-ACTIVITY TOTAL			*34,216*		*29,527*		*734,088*
	AIR-TO-SURFACE MISSILE SYSTEM							
4	HELLFIRE SYS SUMMARY (C70000)	A	2,200	(305459)	2,200	(294344)	2,200	(253410)
	Less: Advance Procurement (PY)			(-11598)		(-11599)		(-11599)
				293,861		282,745		241,811
	SUB-ACTIVITY TOTAL			*293,861*		*282,745*		*241,811*
	ANTI-TANK/ASSAULT MISSILE SYSTEM							
5	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)		2,392	(304115)	2,776	(332179)	4,139	(431803)
	Less: Advance Procurement (PY)					(-13879)		(-17171)
				304,115		318,300		414,632
6	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007) Advance Procurement (CY)			40000				
7	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000) Advance Procurement (CY)							11427
8	MLRS ROCKET (C65400)			4447		9327		
9	GUIDED MLRS ROCKET (GMLRS) (C65404)							8480
10	MLRS LAUNCHER SYSTEMS (C66400)		39	140680	66	186958	35	148294
11	ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)	B	110	90777	100	97144	24	34263

APPROPRIATION Missile Procurement, Army **ACTIVITY** 02 Other missiles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2000 QTY	FY 2000 COST	FY 2001 QTY	FY 2001 COST	FY 2002 QTY	FY 2002 COST
12	ATACMS BLKII SYSTEM SUMMARY (CA6101)	A	48	229051	34	213359	6	61000
	SUB-ACTIVITY TOTAL			*809,070*		*825,088*		*678,096*
	ACTIVITY TOTAL			**1,137,147**		**1,137,360**		**1,653,995**

APPROPRIATION Missile Procurement, Army **ACTIVITY** 03 Modification of missiles

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2000 QTY	FY 2000 COST	FY 2001 QTY	FY 2001 COST	FY 2002 QTY	FY 2002 COST
	MODIFICATIONS							
13	PATRIOT MODS (C50700)			49630		22718		37617
14	STINGER MODS (C20000)			21858		33033		5830
15	AVENGER MODS (CE8710)			4197		6766		17991
16	ITAS/TOW MODS (C61700)			71764		63969		96204
17	MLRS MODS (C67500)			5791		16347		23599
	SUB-ACTIVITY TOTAL			*153,240*		*142,833*		*181,241*
	ACTIVITY TOTAL			**153,240**		**142,833**		**181,241**

APPROPRIATION Missile Procurement, Army **ACTIVITY** 04 Spares and repair parts

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2000 QTY	FY 2000 COST	FY 2001 QTY	FY 2001 COST	FY 2002 QTY	FY 2002 COST
	SPARES AND REPAIR PARTS							
18	SPARES AND REPAIR PARTS (CA0250)			11207		20595		15299
	SUB-ACTIVITY TOTAL			*11,207*		*20,595*		*15,299*
	ACTIVITY TOTAL			**11,207**		**20,595**		**15,299**

APPROPRIATION Missile Procurement, Army **ACTIVITY** 05 Support equipment and facilities

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2000 QTY	FY 2000 COST	FY 2001 QTY	FY 2001 COST	FY 2002 QTY	FY 2002 COST
	SUPPORT EQUIPMENT AND FACILITIES							
19	AIR DEFENSE TARGETS (C93000)			2352		2372		3325
20	ITEMS LESS THAN $5.0M (MISSILES) (CL2000)			981		961		1039
21	MISSILE DEMILITARIZATION (HL2000)			1385		1329		1358
22	PRODUCTION BASE SUPPORT (CA0100)			3192		3114		3377
	SUB-ACTIVITY TOTAL			*7,910*		*7,776*		*9,099*
	ACTIVITY TOTAL			**7,910**		**7,776**		**9,099**
	APPROPRIATION TOTAL			**1,309,504**		**1,308,564**		**1,859,634**

NOMENCLATURE INDEX

SSN INDEX

Unit Set Fielding

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Table of Contents - Missile Procurement, Army

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
PATRIOT PAC-3 (C49200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	6475				72							
Gross Cost	5064.5				676.6							
Less PY Adv Proc	123.3				0.0							
Plus CY Adv Proc	123.3				0.0							
Net Proc (P-1)	5064.5				676.6							
Initial Spares												
Total Proc Cost	5064.5				676.6							
Flyaway U/C												
Wpn Sys Proc U/C					9.4							

Description:

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

DESCRIPTION: PATRIOT is an advanced Surface-to-Air guided missile system with a high single shot kill probability capable of operation in the presence of Electronic Countermeasures (ECM) and able to conduct multiple simultaneous engagements against high performance air breathing targets and ballistic missiles likely to be encountered by US Forces. The system utilizes a multifunction Phased Array Radar, a digital computer controlling system function, a guidance system combining command and homing (track-via-missile) features, and provides the operator the ability to control operations. PATRIOT totally replaced Nike Hercules and partially replaced HAWK. It has the advantage of reducing manpower and logistics costs associated with replaced systems while providing improved high and medium altitude air defense. Deployment is to the field Army and the system is integrated with the U.S. Air Force and U.S. Navy in the overall air defense of theater operations. The PATRIOT Advanced Capability (PAC-3) program is a result of a series of integrated, phased system improvements in combination with the PAC-3 missile which uses hit-to-kill technology. Modification to the system, which includes radar enhancements, communications upgrades, and increased command, control, and computer capability, will increase PATRIOT's effectivity, survivability, flexibility of defense design, footprint, and detection of smaller low radar cross section targets.

Justification:
JUSTIFICATION: FY02 funding is required to support the planned PAC-3 PATRIOT system through modification of existing ground support equipment and procurement of the PAC-3 missiles.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES	P-1 Line Item Nomenclature: PATRIOT PAC-3 (C49200)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Missile Hardware - Recurring													
Missile Hardware								277706	72	3857			
Field Surveillance								13965					
Obsolescence								9835					
SUBTOTAL								**301506**					
Non-Recurring Costs													
Initial Production Facilitization								155000					
SUBTOTAL								**155000**					
Ground Support Equipment													
Radar Phase III								43100					
CDI Phase III								16700					
RLCEU								5800					
Command Launch System								24093					
MIDS								5900					
Initial Spares								16300					
SUBTOTAL								**111893**					
Support Cost													
Contractor Engineering								35204					
Government/Software Engineering								27353					
Sys Engrg/Proj Mgmt (SEPM)								21476					
Integrated Logistics Support								13957					
Depot Maint Plant Equipment (DMPE)								1500					
Fielding								8685					
SUBTOTAL								**108175**					
Total								**676574**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		PATRIOT PAC-3 (C49200)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Missile Hardware										
FY 1998 LRIPB BMDO	LMMFC Dallas, TX	SS/CPIF	AMCOM	Dec 99	Sep 01	20	5124	NA		Jun 97
FY 2000 LRIP1 BMDO	LMMFC Dallas, TX	SS/CPIF	AMCOM	May 00	May 02	32	5141	NA		Nov 99
FY 2001 LRIP2 BMDO	LMMFC Dallas, TX	SS/CPIF	AMCOM	Dec 00	Feb 03	40	4535	NA		Aug 00
FY 2002 LRIP3 ARMY	LMMFC Dallas, TX	SS/FPIS	AMCOM	Dec 01	Jan 04	72	3857	NA		

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: PATRIOT PAC-3 (C49200)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER
							Calendar Year 00												Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PAC-3 MISSILE (LRIP-BASIC) BMDO																														
	1	FY 98	A	20	0	20			A																				16	4
PAC-3 MISSILE (LRIP-1) BMDO																														
	1	FY 00	A	32	0	32								A																32
PAC-3 MISSILE (LRIP-2) BMDO																														
	1	FY 01	A	40	0	40															A									40
PAC-3 MISSILE (LRIP-3) ARMY																														
	1	FY 02	A	72	0	72																								72
Total				164		164																							16	148

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	LMMFC, Dallas, TX	6.00	20.00	20.00	0	1	INITIAL	7	1	24	25	
							REORDER	8	1	24	25	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: PATRIOT PAC-3 (C49200)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03										LATER
							Calendar Year 02												Calendar Year 03										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PAC-3 MISSILE (LRIP-BASIC) BMDO																													
	1	FY 98	A	20	16	4			4																				0
PAC-3 MISSILE (LRIP-1) BMDO																													
	1	FY 00	A	32	0	32								2	4	4	4	4	6	4	4									0
PAC-3 MISSILE (LRIP-2) BMDO																													
	1	FY 01	A	40	0	40																	4	4	2	4	4	4	4	4	10
PAC-3 MISSILE (LRIP-3) ARMY																													
	1	FY 02	A	72	0	72			A																				72
Total				164	16	148			4					2	4	4	4	4	6	4	4		4	4	2	4	4	4	4	4	82

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	LMMFC, Dallas, TX	6.00	20.00	20.00	0

MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL		7	1	24	25	
	REORDER		8	1	24	25	
	INITIAL						
	REORDER						
	INITIAL						
	REORDER						
	INITIAL						
	REORDER						
	INITIAL						
	REORDER						

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: PATRIOT PAC-3 (C49200)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												LATER
							Calendar Year 04												Calendar Year 05												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PAC-3 MISSILE (LRIP-BASIC) BMDO																														
	1	FY 98	A	20	20	0																								0
PAC-3 MISSILE (LRIP-1) BMDO																														
	1	FY 00	A	32	32	0																								0
PAC-3 MISSILE (LRIP-2) BMDO																														
	1	FY 01	A	40	30	10	6	4																						0
PAC-3 MISSILE (LRIP-3) ARMY																														
	1	FY 02	A	72	0	72				4	6	4	8	4	8	4	8	4	6	8	8										0
Total				164	82	82	6	4		4	6	4	8	4	8	4	8	4	6	8	8										

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	LMMFC, Dallas, TX	6.00	20.00	20.00	0	1	INITIAL	7	1	24	25	
							REORDER	8	1	24	25	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
STINGER SYSTEM SUMMARY (C18500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					497							
Gross Cost	1143.3				45.9							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	1143.3				45.9							
Initial Spares	1.6											
Total Proc Cost	1144.9				45.9							
Flyaway U/C												
Wpn Sys Proc U/C					0.1							

Description:

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

The Stinger Block I missile incorporates the latest hardware and software modifications which increase the overall missile performance against low observable targets, cruise missiles and unmanned aerial vehicles. The Block I missile also resolves a key aviation deficiency by incorporating an Roll Frequency Sensor/Seeker that eliminates the need for super-elevation on aviation platforms. The Stinger Block I missile is compatible with all current and planned launch platforms, including Air-To-Air Stinger, Avenger, Bradley Linebacker and manportable, shoulder-fired applications. The Block I missile program also incorporates component redesign and replacement to address service life and obsolescence issues.

Justification:
The Stinger Block I program corrects deficiencies in engagements against head/tail-on and slow moving targets, counter-measures, and night-time engagements and eliminates the need for super-elevation in aviation platforms. The FY02 program will procure new Stinger Block I missiles required to replace inventory losses due to the expiration of the service life of the aging Stinger Reprogrammable Microprocessor (Stinger-RMP) missiles in combat stocks to maintain "Go-to-War" capability.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES	P-1 Line Item Nomenclature: STINGER SYSTEM SUMMARY (C18500)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
MISSILE HARDWARE - RECURRING													
Missile								42210	497	85			
Subtotal Hardware Cost								**42210**					
Containers								78					
Flyaway Cost								**42288**					
SUPPORT COST													
Government Engineering								2000					
Contractor Engineering								1602					
Subtotal Support Cost								**3602**					
Subtotal Support Cost													
Total								**45890**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		STINGER SYSTEM SUMMARY (C18500)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Missile										
FY 2002	Raytheon Systems Company Tucson, AZ	SS/FP	AMCOM	FEB 02	OCT 03	497	85	YES		

REMARKS:

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: STINGER SYSTEM SUMMARY (C18500)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03										LATER
							Calendar Year 02												Calendar Year 03										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Missile																													
	1	FY 02	A	497	0	497					A																			497
FMS Customers																													
	1	FY 02	FMS	1511	0	1511											5	14	40	60	75	121	150	150	150	85	75	71	76	76	363
Total				2008		2008											5	14	40	60	75	121	150	150	150	85	75	71	76	76	860

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Raytheon Systems Company, Tucson, AZ	125.00	275.00	720.00	0	1	INITIAL	0	4	20	24	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: STINGER SYSTEM SUMMARY (C18500)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												LATER
							Calendar Year 04												Calendar Year 05												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Missile																															
	1	FY 02	A	497	0	497	41	41	41	41	41	41	41	42	42	42	42	42												0
FMS Customers																															
	1	FY 02	FMS	1511	1148	363	76	76	76	76	59																			0
Total				2008	1148	860	117	117	117	117	100	41	41	42	42	42	42	42												

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Raytheon Systems Company, Tucson, AZ	125.00	275.00	720.00	0	1	INITIAL	0	4	20	24	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
AVENGER SYSTEM SUMMARY (C14900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C15200, C16000, CE8710, CA0260

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	866	15	15	6								
Gross Cost	997.4	34.7	34.2	29.5	11.6							
Less PY Adv Proc	122.9											
Plus CY Adv Proc	122.9											
Net Proc (P-1)	997.4	34.7	34.2	29.5	11.6							
Initial Spares	60.9			2.8								
Total Proc Cost	1058.3	34.7	34.2	32.4	11.6							
Flyaway U/C												
Wpn Sys Proc U/C		2.3	2.3	4.9								

Description:

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

AVENGER System is a highly mobile, Stinger-based, Short Range Air Defense system capable of day, night, adverse weather and shoot on-the-move engagement operations. It provides Division and Corps units with low altitude air defense against fixed and rotary wing threats, unmanned aerial vehicles and cruise missiles. Mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV)and manned by a crew of two, the turreted system is equipped with 8 Stinger missiles and a very high rate of fire .50 cal machine gun. A Forward Looking Infrared Receiver (FLIR) provides Avenger with a night fighting capability. Production fire units are now equipped with a Slew-to-Cue capability that permits the system to automatically slew to externally reported radar tracks. By placing targets directly into the gunner's sight, lengthy manual searching is eliminated and detections and engagements are increased. Avenger can be remotely controlled and operated from the safety of a nearby foxhole/building/position. Additional capability is provided via an eye-safe laser range finder and a Mark XII crypto-secure Identification Friend or Foe (IFF) device. Because of its FLIR, video recording capability, and machine gun, the system is routinely employed in Bosnia and Kosovo for nightime roadblock security, crowd surveillance, and reconnaissance. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
The FY02 funds continue total package fielding of the the active Army Avenger fleet in support of Total Army Force Requirements. Specifically, these fire units will support upgunning of heavy divisions, increasing their systems from 24 to 36 units, increasing Divisional air defense night fighting capability and providing a digital sensor to shooter capability.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
AVENGER (PED MT STINGER) (MYP) (C16000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C15200, C14900, CE8710, CA0260

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	866	15	15	6								902
Gross Cost	954.5	34.7	34.2	29.5	11.6							1064.5
Less PY Adv Proc	122.9											122.9
Plus CY Adv Proc	122.9											122.9
Net Proc (P-1)	954.5	34.7	34.2	29.5	11.6							1064.5
Initial Spares	60.9			2.8								63.7
Total Proc Cost	1015.4	34.7	34.2	32.4	11.6							1128.3
Flyaway U/C												
Wpn Sys Proc U/C		2.3	2.3	4.9								

Description:

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

The AVENGER is a highly mobile, Stinger missile based, Short Range Air Defense system, capable of day, night, adverse weather and shoot on-the-move engagement operations. The AVENGER system is mounted on a High Mobility, Multipurpose Wheeled Vehicle (HMMWV), and manned by a crew of two, the turreted system is equipped with 8 Stinger missiles and a very high rate of fire .50 cal machine gun. A Forward Looking Infrared Receiver (FLIR) provides Avenger with a night fighting capability. Production fire units are now equipped with a Slew-to-Cue capability that permits the system to automatically slew to externally reported radar tracks. By placing targets directly into the gunner's sight, lengthy manual searching is eliminated and detections and engagements are increased. Avenger can be remotely controlled and operated from the safety of a nearby foxhole/building/position. Additional capability is provided via an eye-safe laser range finder and a Mark XII crypto-secure Identification Friend or Foe (IFF) device. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
The FY02 funds continue total package fielding of the active Army Avenger fleet in support of Total Force Requirements. Specifically, these fire units will support upgunning of heavy divisions, increasing their systems from 24 to 36 fire units, increasing Divisional air defense night fighting capability and providing a digital sensor to shooter capability.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES			P-1 Line Item Nomenclature: AVENGER (PED MT STINGER) (MYP) (C16000)			Weapon System Type:			Date: June 2001		
MSLS Cost Elements	ID CD	**FY 00**			**FY 01**			**FY 02**			**FY 03**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Avenger (PED Mt STINGER) (MYP)													
Hardware - Recurring													
Avenger Fire Unit		16354	15	1090	6816	6	1136						
Subtotal Hardware Production		**16354**			**6816**								
HMMWV		846			344								
STC/CFCC/AVT		1784			740								
Govt Furnished Material (GFM)		62			1000								
Driveaway		**19046**			**8900**								
Support Cost													
Government Engineering		4562			4024			3198					
Contractor Engineering		5102			3979			2836					
Total Package Fielding		282			1038			1524					
Support Equipment		5224			6281			1570					
Training Equipment					5305			2496					
Subtotal Support Cost		**15170**			**20627**			**11624**					
Initial Spares					2830								
Total		**34216**			**32357**			**11624**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		AVENGER (PED MT STINGER) (MYP) (C16000)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Avenger Fire Unit										
FY 1999	Boeing Huntsville, AL	SS/FP	AMCOM	Mar 99	Jun 01	15	1090	yes		
FY 2000	Boeing Huntsville, AL	SS/FP	AMCOM	Dec 99	Sep 01	15	1090	yes		
FY 2001	Boeing Huntsville, AL	SS/FP	AMCOM	Nov 00	Aug 02	6	1136	yes		

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: AVENGER (PED MT STINGER) (MYP) (C16000)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 00 Calendar Year 00 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 01 Calendar Year 00 OCT	NOV	DEC	FY 01 Calendar Year 01 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Avenger Fire Unit																														
	1	FY 99	A	15	0	15																				4	5	5	1	0
	1	FY 00	A	15	0	15			A																				4	11
	1	FY 01	A	6	0	6														A										6
Total				36		36																				4	5	5	5	17

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Boeing, Huntsville, AL	5.00	12.00	24.00	15	1	INITIAL	7	8	33	41	
							REORDER	0	1	21	22	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: AVENGER (PED MT STINGER) (MYP) (C16000)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 02 / CY 02 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 03 / CY 03 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Avenger Fire Unit																															
	1	FY 99	A	15	15	0																									0
	1	FY 00	A	15	4	11	5	5	1																						0
	1	FY 01	A	6	0	6											6														0
Total				36	19	17	5	5	1								6														

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Boeing, Huntsville, AL	5.00	12.00	24.00	15	1	INITIAL	7	8	33	41	
							REORDER	0	1	21	22	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
HELLFIRE SYS SUMMARY (C70000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	51648	2000	2200	2200	2200							
Gross Cost	2787.3	310.3	305.5	294.3	253.4							
Less PY Adv Proc	0.0	0.0	11.6	11.6	11.6							
Plus CY Adv Proc	0.0	44.3	0.0	0.0	0.0							
Net Proc (P-1)	2787.3	354.6	293.9	282.7	241.8							
Initial Spares	7.5											
Total Proc Cost	2794.8	354.6	293.9	282.7	241.8							
Flyaway U/C												
Wpn Sys Proc U/C		0.2	0.1	0.1	0.1							

Description:

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

HELLFIRE is a critical system to the Legacy and Objective Forces. HELLFIRE provides the heavy armor, precision-kill capability to the Apache (Legacy Force) and Commanche (Objective Force). Its' precision-kill capability provides increased lethality against multiple types of targets. HELLFIRE is an air-to-ground missile system designed to defeat individual hardpoint targets. The missile configuration has the capability for modular guidance section replacements. Laser HELLFIRE uses semi-active laser terminal guidance. HELLFIRE II, the latest variant of Laser HELLFIRE, provides for point target precision strike, defeats future advanced armor threat, is effective in countermeasures, and is shipboard compatible. Longbow HELLFIRE uses a radio frequency guidance section and is a fire-and-forget missile and substantially enhances survivability of the AH-64D Longbow Apache Helicopter. Longbow HELLFIRE provides the capability to engage targets both day and night in adverse weather and with battlefield obscurants present. Both HELLFIRE II and Longbow HELLFIRE are 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 Commanche, the Army's next generation helicopter. Production buys are scheduled to support training, testing, fielding and deployment of these aircraft. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
FY 02 funds the fourth year of the Longbow HELLFIRE missile's five-year multi-year production contract, the rocket motor retrofit of Longbow HELLFIRE and HELLFIRE II missiles, and also supports the on-going training, fielding and deployment of the complete AH-64D Longbow Apache system.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
LASER HELLFIRE MSL (BASIC/IHW/HFII) (C70100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	49140											
Gross Cost	2053.8	9.3	1.0		6.9							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	2053.8	9.3	1.0		6.9							
Initial Spares	5.7											
Total Proc Cost	2059.5	9.3	1.0		6.9							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Descprition: Laser HELLFIRE is an air-to-ground, point target, precision strike missile system designed to defeat individual hardpoint targets. The missile system has the capability for modular guidance section replacements. Laser HELLFIRE uses semi-active laser terminal and is the primary anti-tank armament of the AH-64 Apache, OH 58 Kiowa Warrior, and special operation helicopters and will be used by the RAH-66 Comanche, the Army's next generation helicopter. Beginning in FY 90, the missile was reconfigured with an interim warhead to improve lethality against near-term threat reactive armor. HELLFIRE II includes hardening of the laser seeker against countermeasures, further warhead improvements for the long term, replacement of the mechanical fuze with an electrical fuze, and restoration of the original length and weight. Laser Hellfire supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

Justification: FY 02 funding is for rocket motor retrofit of 2,187 HELLFIRE II missiles. HELLFIRE II will defeat all known electro-optical countermeasures and advanced reactive armors. Using its semi-active laser homing guidance system, laser HELLFIRE is perfectly suited for strikes at a variety of specific hardpoint targets, while minimizing exposure of the aircraft and supporting troops.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES			P-1 Line Item Nomenclature: LASER HELLFIRE MSL (BASIC/IHW/HFII) (C70100)			Weapon System Type:			Date: June 2001		
MSLS Cost Elements	ID CD	**FY 00**			**FY 01**			**FY 02**			**FY 03**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Flyaway Costs													
Hardware Costs - Recurring													
All-up Rounds													
Gov Furn Eq (GFE) Explosives													
Engineering Services													
Engineering Change Orders								6555	2187	3			
Fielding													
Acceptance Testing		510											
SUBTOTAL		**510**						**6555**					
Engineering Support													
Project Mgt Admin		250											
Production Engineering Support		250						345					
SUBTOTAL		**500**						**345**					
Non-Recurring													
Disposal of Tool/test Equipment													
Initial Production Facilitization (IPF)													
Rate tooling/Test Equipment													
SUBTOTAL													
Peculiar Support Equipment													
Environmenral Protections													
Subtotal													
Gross P-1 End Item		**1010**						**6900**					
Less: Prior Year Adv Proc													
Net P-1 Full Funding Cost		**1010**						**6900**					
Plus: P-1 Cy Adv Proc													
Other Non P-1 Costs													
Inital Spares													
Mods													
Total		**1010**						**6900**					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
LONGBOW HELLFIRE/LBHF+ (C70300)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	2508	2000	2200	2200	2200							
Gross Cost	704.4	301.0	304.4	294.3	246.5							
Less PY Adv Proc	0.0	0.0	11.6	11.6	11.6							
Plus CY Adv Proc	0.0	44.3	0.0	0.0	0.0							
Net Proc (P-1)	704.4	345.3	292.9	282.7	234.9							
Initial Spares												
Total Proc Cost	704.4	345.3	292.9	282.7	234.9							
Flyaway U/C												
Wpn Sys Proc U/C		0.2	0.1	0.1	0.1							

Description:

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

Longbow HELLFIRE is a critical system to the Legacy and Objective Forces. Longbow HELLFIRE provides the army, fire-and-forget capability to the Apache (Legacy Force) and Commanche (Objective Force). Longbow HELLFIRE provides a versatile capability to engage targets both during the day and night, in adverse weather and with battlefield obscurants present. Longbow HELLFIRE's fire-and-forget capability and flexibility of engagement options provide a dramatic increase in lethality and survivability for the Apache (Legacy Force) and Commanche (Objective Force) systems which complement the semi-active Laser HELLFIRE missile. The Longbow HELLFIRE missile contains a radio frequency guidance section, which provides a lock-on before launch (LOLB) or lock-on after launch (LOAL) capability, depending on target range and movement parameters. All three Longbow program elements (Fire Control Radar, D Model Apache helicopter, and Longbow HELLFIRE missile) were deployed simultaneously and are fielded as a total system. Laser HELLFIRE and Longbow HELLFIRE are complementary; both are required on the modern battlefield. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
The Longbow HELLFIRE will not change the AH-64 mission or role but will provide for increased aircraft survivability. It is envisioned that Longbow HELLFIRE will also be used on the Comanche as a pre-planned product improvement item. FY 02 funds the fourth year of the five year multi-year contract and rocket motor retrofit of 2,633 missiles.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/Budget Activity/Serial No.: Missile Procurement, Army / 2 / OTHER MISSILES			P-1 Line Item Nomenclature: LONGBOW HELLFIRE/LBHF+ (C70300)			Weapon System Type:			Date: June 2001		
MSLS Cost Elements	ID CD	**FY 00**			**FY 01**			**FY 02**			**FY 03**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Flyaway Costs													
Hardware Costs - Recurring													
All-Up-Rounds		291598	2200	133	280299	2200	127	220599	2200	100			
Gv Furn Eq (GFE) Explosives		662			662			682					
Engineering Services		2000			1472			1804					
Engineering Change Orders								10730	2633	4			
Fielding		1145			1257			1343					
Acceptance Testing		2390			3425			3730					
SUBTOTAL		**297795**			**287115**			**238888**					
Engineering Support													
Project Mgt Admin		3655			3690			3756					
Production Engineering Support		2999			3539			3866					
SUBTOTAL		**6654**			**7229**			**7622**					
Non-Recurring													
Disposal of Tooling/Test Equipment													
Initial Production Facilitization (IPF)													
Cost Reduction Program													
Rate Tooling/Test Equipment													
SUBTOTAL													
Peculiar Support Equipment													
Environmental Protection Covers													
SUBTOTAL													
Gross P-1 End Item		**304449**			**294344**			**246510**					
Less: Prior Year Adv Proc		11598			11599			11599					
Net P-1 Full Funding Cost		**292851**			**282745**			**234911**					
Plus: P-1 CY Adv Proc													
Other Non P-1 Costs													
Initial Spares													
Mods													
Total		**292851**			**282745**			**234911**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		LONGBOW HELLFIRE/LBHF+ (C70300)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
All-Up-Rounds										
FY 2000	Longbow Limited Liability Co Orlando, Fl	FFP-M-5(2)	AMCOM	Dec-99	Mar-02	2200	133	Yes		*
FY 2001	Longbow Limited Liability Co Orlando, Fl	FFP-M-5(3)	AMCOM	Dec-00	Jan-03	2200	127	Yes		*
FY 2002	Longbow Limited Liability Co Orlando, Fl	FFP-M-5(4)	AMCOM	Dec-01	Nov-03	2200	100	Yes		*

REMARKS: * Performance-based specifications are used in all production contracts.

FY 01 / 02 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: LONGBOW HELLFIRE/LBHF+ (C70300)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02												LATER
							Calendar Year 01												Calendar Year 02												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
All-Up-Rounds																															
	1	FY 00	A	2200	0	2200																		120	200	200	200	200	200	225	855
	1	FY 01	A	2200	0	2200			A																						2200
	1	FY 02	A	2200	0	2200															A										2200
Total				6600		6600																		120	200	200	200	200	200	225	5255

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Longbow Limited Liability Co, Orlando, Fl	100.00	.00	235.00	18	1	INITIAL	0	0	0	0
							REORDER	0	2	25	27
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

REMARKS

*As a result of FFP MYP, MFR lead time continuously improves.

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: LONGBOW HELLFIRE/LBHF+ (C70300)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04												LATER
							Calendar Year 03												Calendar Year 04												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
All-Up-Rounds																														
	1	FY 00	A	2200	1345	855	225	225	225	180																				0
	1	FY 01	A	2200	0	2200				45	225	225	225	225	225	225	225	225	225	130											0
	1	FY 02	A	2200	0	2200														100	230	230	230	235	235	235	235	235			0
Total				6600	1345	5255	225	225	225	225	225	225	225	225	225	225	225	225	225	230	230	230	230	235	235	235	235	235			

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Longbow Limited Liability Co, Orlando, Fl	100.00	.00	235.00	18

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	0	0	0
	REORDER	0	2	25	27

REMARKS

*As a result of FFP MYP, MFR lead time continuously improves.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	4499	3569	2392	2776	4139							
Gross Cost	944.3	362.8	304.1	332.2	431.8							
Less PY Adv Proc	27.4	25.6	0.0	13.9	17.2							
Plus CY Adv Proc	53.0	0.0	40.0	0.0	0.0							
Net Proc (P-1)	969.9	337.2	344.1	318.3	414.6							
Initial Spares		4.2	4.5	6.6	2.4							
Total Proc Cost	969.9	341.5	348.6	324.9	417.0							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Javelin, a fire-and-forget system, is critical to the Army's Objective Force. 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 highly reliable man-portable anti-armor system that provides the individual soldier the capability of defeating multiple types of targets (tanks, APCs, bunkers, helicopter, walls, etc). These characteristics (manportability, reliability, fire-and-forget, and multi-target capability) are key elements of the Army's transformation to a more versatile, deployable, lethal, survivable, and sustainable force. Javelin can be delivered by individual paratrooper, door bundle, tracked/wheeled vehicles, rail, ship or air. This system has a high kill rate against all known armor threats at extended ranges under day/night, adverse weather and multiple counter-measure conditions. The system's soft launch permits firing from a fighting position or an enclosure. Javelin is designed to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a launch tube assembly. The system also includes training devices for tactical training, classroom training (EPBST), and handling exercises. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
FY02 funds the third year of the current four-year multiyear contract. 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, to move to another fighting position, or to 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 both stationary and moving targets. The Javelin is capable of operating 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.

Exhibit P-40C, Budget Item Justification Sheet		Date: June 2001
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /2/OTHER MISSILES		P-1 Item Nomenclature JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
Program Elements for Code B Items:	Code:	Other Related Program Elements:

This system will have a secondary mission of destroying bunkers and will provide defensive capability against attacking/hovering helicopters. The CLU can be used in a stand-alone mode for battlefield surveillance and target selection.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES	P-1 Line Item Nomenclature: JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Missile Hardware - Recurring													
All Up Round		163629	2392	68	190225	2776	69	284649	4139	69			
Engineering Services		7078			3992			4277					
Engineering Change Orders		180			162			243					
Acceptance Testing		4043			3080			5992					
Fielding		1544			1328			2100					
Subtotal Missile Hardware		**176474**			**198787**			**297261**					
Procurement Support													
Government Project Management		11582			9901			10791					
Government Production Engineering		6914			4002			4915					
Publications/Technical Data		395			495			563					
Subtotal Procurement Support		**18891**			**14398**			**16269**					
Command & Launch Hardware													
Command Launch Unit		63405	610	104	83985	808	104	87773	840	104			
Engineering Services		2359			1331			1426					
Engineering Change Orders		67			74			77					
Fielding		3326			3229			5151					
SubTotal C&L Hardware		**69157**			**88619**			**94427**					
Training Devices													
FTT - Student Station		28045	424	66	22963	351	65	15440	236	65			
FTT - Instructor Station		1827	77	24	2480	101	25	2799	114	25			
Basic Skills Trainer		8550	134	64	3764	59	64	4466	70	64			
Missile Simulation Round		1171	482	2	1168	473	2	1141	454	3			
SubTotal Training Devices		**39593**			**30375**			**23846**					
Gross P-1 End Cost		**304115**			**332179**			**431803**					
Less: Prior Year Adv Proc					-13879			-17171					
Net P-1Full Funding Cost		**304115**			**318300**			**414632**					
PLUS P-1 CY Adv. Proc.		40000											
Other Non P-1 Costs													
Initial Spares		4479			6554			2356					
Total		**348594**			**324854**			**416988**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army / 2 / OTHER MISSILES

Weapon System Type:

P-1 Line Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
All Up Round										
FY 1999	JV/All Up Round Multiyear 1 Tucson, AZ/Orlando, FL	SS/FP/M3-3	AMCOM	Dec 98	May 01	3569	79	Yes		
FY 2000	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-1	AMCOM	Aug 00	Feb 02	2392	68	Yes		
FY 2001	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-2	AMCOM	Dec 00	Feb 03	2776	69	Yes		
FY 2002	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-3	AMCOM	Dec 01	Feb 04	4139	69	Yes		
Command Launch Unit										
FY 1999	JV/All Up Round Multiyear 1 Tucson, AZ/Orlando, FL	SS/FP/M3-3	AMCOM	Dec 98	Jan 01	298	127	Yes		
FY 2000	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-1	AMCOM	Aug 00	Oct 01	610	104	Yes		
FY 2001	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-2	AMCOM	Dec 00	Oct 02	808	104	Yes		
FY 2002	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-3	AMCOM	Dec 01	Oct 03	840	104	Yes		

REMARKS:

FY 99 / 00 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 99												FY 00										LATER
										CY 99														CY 00							
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
All Up Round																														
	1	FY 97	A	1020	0	1020		6													4					24	138	147	380	321	0
	1	FY 97	MC	141	0	141																					70	71			0
	1	FY 98	A	894	0	894																								63	831
	1	FY 98	MC	380	0	380																								76	304
	1	FY 99	A	3569	0	3569																									3569
	1	FY 99	MC	741	0	741																									741
	1	FY 00	A	2392	0	2392																									2392
	1	FY 00	MC	986	0	986																									986
	1	FY 01	A	2776	0	2776																									2776
	1	FY 01	MC	305	0	305																									305
	1	FY 02	A	4139	0	4139																									4139
Command Launch Unit																														
		FY 97	A	206	0	206		18	11	1	0	7	2	43	26	33	25	0	0	2	19	1	18								0
		FY 97	MC	48	0	48	0	3	10	3	0	0	4	12	8	0	8	0	0	0	0	0	0								0
		FY 98	A	395	0	395																0	17	38	18	49	49	49	38	38	99
		FY 98	MC	140	0	140																33	8	12	30	11	11	11	12	12	0
		FY 99	A	298	0	298																									298
		FY 99	MC	153	0	153																									153
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	11	3	22	25
	REORDER	1	1	22	23
2	INITIAL	11	3	22	25
	REORDER	1	1	22	23
3	INITIAL	11	3	22	25
	REORDER	1	1	22	23
4	INITIAL	11	3	22	25
	REORDER	1	1	22	23
	INITIAL				
	REORDER				

REMARKS

Total quantities reflect round and CLU for both the Army and Marine Corps.

FY 99 / 00 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 99												Fiscal Year 00												LATER
							Calendar Year 99												Calendar Year 00												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		FY 00	A	610	0	610																									610
		FY 00	MC	77	0	77																									77
		FY 01	A	808	0	808																									808
		FY 02	A	840	0	840																									840
Total				20918		20918		27	21	4		7	6	55	34	33	33			2	23	34	43	50	48	84	268	278	430	510	18928

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	11	3	22	25
	REORDER	1	1	22	23
2	INITIAL	11	3	22	25
	REORDER	1	1	22	23
3	INITIAL	11	3	22	25
	REORDER	1	1	22	23
4	INITIAL	11	3	22	25
	REORDER	1	1	22	23
	INITIAL				
	REORDER				

REMARKS

Total quantities reflect round and CLU for both the Army and Marine Corps.

FY 01 / 02 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 01 / CY 01 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 02 / CY 01 OCT	NOV	DEC	FY 02 / CY 02 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
All Up Round																														
	1	FY 97	A	1020	1020	0																								0
	1	FY 97	MC	141	141	0																								0
	1	FY 98	A	894	63	831	266	297	183	43	42																			0
	1	FY 98	MC	380	76	304	76	76	76	76																				0
	1	FY 99	A	3569	0	3569				10	161	416	426	426	426	426	426	426	426											0
	1	FY 99	MC	741	0	741					82	82	82	82	82	82	83	83	83											0
	1	FY 00	A	2392	0	2392														199	199	199	199	199	199	199	200	200	200	200
	1	FY 00	MC	986	0	986														82	82	82	82	82	82	83	83	82	82	82
	1	FY 01	A	2776	0	2776																								2776
	1	FY 01	MC	305	0	305																								305
	1	FY 02	A	4139	0	4139																								4139
Command Launch Unit																														
		FY 97	A	206	206	0																								0
		FY 97	MC	48	48	0																								0
		FY 98	A	395	296	99	47	47	5																					0
		FY 98	MC	140	140	0																								0
		FY 99	A	298	0	298			17	35	37	17	35	37	33	29	29	29												0
		FY 99	MC	153	0	153	13	13	13	13	13	13	13	13	13	12	12	12												0

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
2	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
3	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
4	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
	INITIAL					
	REORDER					

FY 01 / 02 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02												LATER
							Calendar Year 01												Calendar Year 02												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		FY 00	A	610	0	610													50	50	51	51	51	51	51	51	51	51	51	51	0
		FY 00	MC	77	0	77													6	6	6	6	6	6	6	7	7	7	7	7	0
		FY 01	A	808	0	808																									808
		FY 02	A	840	0	840																									840
Total				20918	1990	18928	402	433	294	177	335	528	556	558	554	549	550	550	565	337	338	338	338	338	338	340	340	340	340	340	9150

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
2	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
3	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
4	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
	INITIAL						
	REORDER						

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04												LATER
							Calendar Year 03												Calendar Year 04												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
All Up Round																															
	1	FY 97	A	1020	1020	0																									0
	1	FY 97	MC	141	141	0																									0
	1	FY 98	A	894	894	0																									0
	1	FY 98	MC	380	380	0																									0
	1	FY 99	A	3569	3569	0																									0
	1	FY 99	MC	741	741	0																									0
	1	FY 00	A	2392	2192	200	200																								0
	1	FY 00	MC	986	904	82	82																								0
	1	FY 01	A	2776	0	2776		232	232	232	231	231	231	231	231	231	231	231	232												0
	1	FY 01	MC	305	0	305		25	25	25	26	26	26	26	26	25	25	25	25												0
	1	FY 02	A	4139	0	4139														345	345	345	345	345	345	345	345	345	345	345	344
Command Launch Unit																															
		FY 97	A	206	206	0																									0
		FY 97	MC	48	48	0																									0
		FY 98	A	395	395	0																									0
		FY 98	MC	140	140	0																									0
		FY 99	A	298	298	0																									0
		FY 99	MC	153	153	0																									0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
2	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
3	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
4	INITIAL	11	3	22	25	
	REORDER	1	1	22	23	
	INITIAL					
	REORDER					

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04												LATER
							Calendar Year 03												Calendar Year 04												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		FY 00	A	610	610	0																									0
		FY 00	MC	77	77	0																									0
		FY 01	A	808	0	808	67	67	67	67	67	67	67	67	68	68	68	68													0
		FY 02	A	840	0	840													70	70	70	70	70	70	70	70	70	70	70	70	0
Total				20918	11768	9150	349	324	324	324	324	324	324	324	325	324	324	324	327	415	415	415	415	415	415	415	415	415	415	415	344

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

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
2	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
3	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
4	INITIAL		11	3	22	25	
	REORDER		1	1	22	23	
	INITIAL						
	REORDER						

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06												LATER
							Calendar Year 05												Calendar Year 06												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
All Up Round																														
	1	FY 97	A	1020	1020	0																								0
	1	FY 97	MC	141	141	0																								0
	1	FY 98	A	894	894	0																								0
	1	FY 98	MC	380	380	0																								0
	1	FY 99	A	3569	3569	0																								0
	1	FY 99	MC	741	741	0																								0
	1	FY 00	A	2392	2392	0																								0
	1	FY 00	MC	986	986	0																								0
	1	FY 01	A	2776	2776	0																								0
	1	FY 01	MC	305	305	0																								0
	1	FY 02	A	4139	3795	344	344																							0
Command Launch Unit																														
		FY 97	A	206	206	0																								0
		FY 97	MC	48	48	0																								0
		FY 98	A	395	395	0																								0
		FY 98	MC	140	140	0																								0
		FY 99	A	298	298	0																								0
		FY 99	MC	153	153	0																								0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	11	3	22	25
	REORDER	1	1	22	23
2	INITIAL	11	3	22	25
	REORDER	1	1	22	23
3	INITIAL	11	3	22	25
	REORDER	1	1	22	23
4	INITIAL	11	3	22	25
	REORDER	1	1	22	23
	INITIAL				
	REORDER				

REMARKS

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date:
June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06												LATER
							Calendar Year 05												Calendar Year 06												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		FY 00	A	610	610	0																								0
		FY 00	MC	77	77	0																								0
		FY 01	A	808	808	0																								0
		FY 02	A	840	840	0																								0
Total				20918	20574	344	344																							

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL	1320.00	7080.00	12390.00	0
3	JV/CLU Multiyear 1, Tucson, AZ/Orlando, FL	120.00	840.00	1470.00	0
4	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL	120.00	960.00	1680.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	11	3	22	25
	REORDER	1	1	22	23
2	INITIAL	11	3	22	25
	REORDER	1	1	22	23
3	INITIAL	11	3	22	25
	REORDER	1	1	22	23
4	INITIAL	11	3	22	25
	REORDER	1	1	22	23
	INITIAL				
	REORDER				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
JAVELIN (AAWS-M) SYSTEM SUMMARY(Adv Proc) (CC0007)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	27.4	25.6		13.9	17.2							
Less PY Adv Proc	27.4	25.6		13.9	17.2							
Plus CY Adv Proc	53.0		40.0									
Net Proc (P-1)	53.0		40.0									
Initial Spares												
Total Proc Cost	53.0		40.0									
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Javelin, a fire-and-forget system, is critical to the Army's Objective Force. 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 highly reliable man-portable anti-armor system that provides the individual soldier the capability of defeating multiple types of targets (tanks, APCs, bunkers, helicopter, walls, etc). These characteristics (manportability, reliability, fire-and-forget, and multi-target capability) are key elements of the Army's transformation to a more versatile, deployable, lethal, survivable, and sustainable force. Javelin can be delivered by individual paratrooper, door bundle, tracked/wheeled vehicles, rail, ship or air. This system has a high kill rate against all known armor threats at extended ranges under day/night, adverse weather and multiple counter-measure conditions. The system's soft launch permits firing from a fighting position or an enclosure. Javelin is designed to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a launch tube assembly. The system also includes training devices for tactical training, classroom training (EPBST), and handling exercises. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
JUSTIFICATION: The Fiscal Year 2000 advance procurement funds provided economic order quantities for years two through four (FY 2001 through FY 2003) of the second multi-year contract. Advanced Procurement will buy parts and materials in support of the All Up Round, the Command Launch Unit (CLU), the Basic Skills Trainer, the Field Tactical Trainer (FTT)-Instructor Station, and the FTT-Student Station.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM(Adv Proc) (H09000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc					11.4							
Net Proc (P-1)					11.4							
Initial Spares												
Total Proc Cost					11.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Line-of-Sight Anti-Tank (LOSAT) and the Kinetic Energy Missile (KEM) technology provides the foundation for the Objective Force. This program focuses on the integration of the LOSAT weapon system into an air-mobile configuration in order to help remedy the early entry force lethality shortfall against heavy armor in support of the Army Transformation. The LOSAT weapon system consists of a kinetic energy (KE) missile launcher mounted on a heavy High Mobility Multipurpose Wheeled Vehicle (HMMWV) chassis. LOSAT offers a near-term advanced capability for overwhelming armor destruction with a high rate of fire, increased range, and increased force survivability. LOSAT, deployed in the early entry force, will provide the decisive edge to win swiftly with minimum casualities and provides an assault support weapon capability. LOSAT is strategically and tactically deployable, giving commanders and decision makers greater flexibility. The performance of this hypervelocity kinetic energy missile (velocity of a mile per second) is not affected by the proliferation of emerging threat active protection systems and enhanced reactive armors which are both rapidly becoming available on the global marketplace. LOSAT was initiated as a DoD-approved Advanced Concept Technology Demonstration (ACTD) program (PE0603654) in FY 1998 to position the technology for future acquisition decisions, demonstrate subsystem capabilities in flight tests and dirty battlefield environments, evaluate the utility of the LOSAT technology for the early entry forces, demonstrate an integrated HMMWV-based LOSAT system inflight tests and advanced warfighting experiments, and evaluate affordability issues. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
FY 02 Advance Procurement will procure long lead items such as solid rocket motor components, inertial measurement unit, attitude control motors, aft looking receivers, and various guidance electronic components to support the procurement of 144 LOSAT missiles, which is the residual inventory of the ACTD.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
MLRS ROCKET (C65400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C65402, C65404, C65405

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	4170											
Gross Cost	3698.7		4.4	9.3								
Less PY Adv Proc	449.8											
Plus CY Adv Proc	449.8											
Net Proc (P-1)	3698.7		4.4	9.3								
Initial Spares												
Total Proc Cost	3698.7		4.4	9.3								
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

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 enhances the capability of the existing MLRS rocket by providing improvements in range, accuracy and effectiveness. 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 tommorrow's wider battlefronts. Operation Desert Storm identified the need for increased range to defeat long range targets. ER-MLRS accomplishes this mission. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
Funds will provide program support, production engineering associated with deliveries of rockets in prior years and industrial maintenance to support rocket warm line production.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:	P-1 Item Nomenclature
Missile Procurement, Army /2/OTHER MISSILES	MLRS EXTENDED RANGE ROCKET (C65402)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		C65400, C65404, C65405

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	4170											
Gross Cost	109.1		4.4	9.3								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	109.1		4.4	9.3								
Initial Spares												
Total Proc Cost	109.1		4.4	9.3								
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

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 enhances the capability of the existing MLRS rocket by providing improvements in range, accuracy and effectiveness. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/Budget Activity/Serial No.: Missile Procurement, Army / 2 / OTHER MISSILES			P-1 Line Item Nomenclature: MLRS EXTENDED RANGE ROCKET (C65402)			Weapon System Type:			Date: June 2001		
MSLS Cost Elements	ID CD	**FY 00**			**FY 01**			**FY 02**			**FY 03**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
FLY-AWAY COSTS													
HARDWARE													
Extended Range Rockets (ER-MLRS)													
Submunition													
Engineering Services		262			266								
Ind Maint/Init Prod Fac/IWIU/Int fuze					5719								
Production Engineering		2222			1547								
Other Government Agencies		473			503								
Engineering Change Orders													
Fielding		25											
Facilitization													
SUBTOTAL		**2982**			**8035**								
PROCUREMENT SUPPORT													
Project Management Admin		1031			1048								
Test & Evaluation		434			244								
SUBTOTAL		**1465**			**1292**								
Total		**4447**			**9327**								

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
GUIDED MLRS ROCKET (GMLRS) (C65404)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C65400, C65402, C65405

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

Description:

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

The Guided Multiple Launch Rocket System (GMLRS) is the next evolutionary step for MLRS Rockets. The GMLRS will integrate a guidance and control package and a new rocket motor to achieve greater range and precision accuracy resulting in reduced logistics footprint for deployed forces. GMLRS will be effective against counterfire, air defense, light materiel, and personnel targets. 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. This system supports the Legacy-to-Objective transition path of the Army Transformation Campaign Plan(TCP).

Justification:
FY02 funding procures industrial maintenance support, initial production facilitization and establishment of interim fuze.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES	P-1 Line Item Nomenclature: GUIDED MLRS ROCKET (GMLRS) (C65404)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
FLY-AWAY COSTS													
HARDWARE													
Tactical GMLRS													
Submunition													
Engineering Services								556					
Ind Maint/Init Prod Fac/Interim Fuze								5599					
Production Engineering								1259					
Other Government Agencies													
Engineering Change Orders													
Fielding													
Subtotal								**7414**					
PROCUREMENT SUPPORT													
Project Management Admin								1066					
Test & Evaluation													
SUBTOTAL								**1066**					
Total								**8480**					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
MLRS LAUNCHER SYSTEMS (C66400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C65900

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	775	24	39	66	35							939
Gross Cost	2211.9	121.1	140.7	187.0	148.3							2809.0
Less PY Adv Proc	56.9											56.9
Plus CY Adv Proc	56.9											56.9
Net Proc (P-1)	2211.9	121.1	140.7	187.0	148.3							2809.0
Initial Spares	158.7	4.8	3.1	6.4	10.0							182.9
Total Proc Cost	2370.6	125.9	143.8	193.4	158.3							2991.9
Flyaway U/C												
Wpn Sys Proc U/C		5.0	3.6	2.8	4.2							

Description:

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

The Multiple Launch Rocket System (MLRS) provides a high volume of fire power in a very short timeframe. Operationally, the system 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 persons to conduct rocket and missile launches. Utilizing the MLRS Family of Munitions, the range extends from 15 to 300+ kilometers. In FY98 and out, procurement of an Improved Fire Control System (IFCS) and an Improved Launcher Mechanical System (ILMS) becomes part of the M270A1 upgrade. The M270A1 upgrades are needed to fire the Block IA Army Tactical Missile System (ATACMS) missile, Block II and Guided MLRS. 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 upgrades 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 allows 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 98-03 funding provides for rebuilding launchers for deployment to MLRS Heavy Divisions. The objectives of the MLRS are counterfire, suppression of enemy air defenses, light materiel and personnel targets. The system is designed for adaptation to other warheads such as scatterable mines, unitary warheads, terminally guided munitions, and other smart munitions which will expand the systems' target set. The M270A1 upgraded launcher supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
FY02 and FY03 funding provides for continued production of M270A1 launchers, remanufacture of LLM/Carriers and associated support equipment to meet fielding requirements.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
MLRS LAUNCHER (C65900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C66400

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	775	24	39	66	35							
Gross Cost	2211.9	121.1	140.7	187.0	148.3							
Less PY Adv Proc	56.9											
Plus CY Adv Proc	56.9											
Net Proc (P-1)	2211.9	121.1	140.7	187.0	148.3							
Initial Spares	158.7	4.8	3.1	6.4	10.0							
Total Proc Cost	2370.6	125.9	143.8	193.4	158.3							
Flyaway U/C												
Wpn Sys Proc U/C		5.0	3.6	2.8	4.2							

Description:

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

The M270A1 launcher improves the survivability of the crew and launcher and is needed to fire the Block IA Army Tactical Missile System (ATACMS) missile, ATACMS Block II and Guided MLRS. The capability of the basic M270 system is increased through an improved launcher drive system and increased performance of a fire control computer. A remanufacture program on the MLRS launcher extends its life 10 years. The M270A1 upgraded launcher supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
FY02 and FY03 funding provides for continuing production of M270A1 launchers, remanufacture of LLM/Carriers and associated support equipment to meet fielding requirements.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/Budget Activity/Serial No.: Missile Procurement, Army / 2 / OTHER MISSILES			P-1 Line Item Nomenclature: MLRS LAUNCHER (C65900)			Weapon System Type:			Date: June 2001		
MSLS Cost Elements	ID CD	**FY 00**			**FY 01**			**FY 02**			**FY 03**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
GROUND EQUIPMENT HARDWARE													
Launcher		75508	39	1936	104987	66	1591	56003	35	1601			
Remanufacture		15819			24630			16128					
Launcher Pod/Container (LP/C) Trainer 2x9/3x6 Launcher		811	78	10	1103	132	8	786	70	11			
Peculiar Support Equipment		5702			5529			24568					
Restructure		6644			10149								
Engineering Services		14374			14350			22724					
Production Engineering		10968			11423			10584					
Other Government Agencies		2564			4118			3446					
Fielding		1176			753			1108					
Facilitization					1946			4741					
SUBTOTAL		**133566**			**178988**			**140088**					
PROCUREMENT SUPPORT													
Project Management Admin		7114			7970			8206					
SUBTOTAL		**7114**			**7970**			**8206**					
Gross P-1 End Cost		**140680**			**186958**			**148294**					
Total		**140680**			**186958**			**148294**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		MLRS LAUNCHER (C65900)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Launcher										
FY 2000	Lockheed Martin M.&F.C.Sys Dallas, Texas	SS/FFP	PEO Tactical Missiles/AMCOM	Jun 00	Jan 02	39	1936	Yes		
FY 2001	Lockheed Martin M.&F.C.Sys Dallas, Texas	SS/FFP	PEO Tactical Missiles/AMCOM	Dec 00	Dec 02	66	1591	Yes		
FY 2002	Lockheed Martin M.&F.C.Sys Dallas, Texas	SS/FFP	PEO Tactical Missiles/AMCOM	Dec 01	Dec 03	35	1601	Yes		

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: MLRS LAUNCHER (C65900)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01										LATER
							Calendar Year 00												Calendar Year 01										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Launcher M270A1																													
	1	FY 98	A	21	13	8													3	3	2										0
	1	FY 99	A	24	0	24															1	2	2	2	2	2	2	2	2	2	5
	1	FY 00	A	39	0	39									A																39
	1	FY 01	A	66	0	66															A										66
	1	FY 01	FMS	10	0	10																									10
	1	FY 02	A	35	0	35																									35
Total				195	13	182													3	3	3	2	2	2	2	2	2	2	2	2	155

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin M.&F.C.Sys, Dallas, Texas	2.00	8.00	12.00	0	1	INITIAL	8	2	24	26	
							REORDER	0	2	24	26	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: MLRS LAUNCHER (C65900)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03										LATER
							Calendar Year 02												Calendar Year 03										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Launcher M270A1																													
	1	FY 98	A	21	21	0																							0
	1	FY 99	A	24	19	5	2	3																					0
	1	FY 00	A	39	0	39				3	3	3	3	3	4	4	4	4	4	4										0
	1	FY 01	A	66	0	66															5	5	5	5	5	5	6	6	6	6	12
	1	FY 01	FMS	10	0	10																									10
	1	FY 02	A	35	0	35			A																						35
Total				195	40	155	2	3		3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	57

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Lockheed Martin M.&F.C.Sys, Dallas, Texas	2.00	8.00	12.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL	8	2	24	26	
	REORDER	0	2	24	26	
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: MLRS LAUNCHER (C65900)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												LATER
							Calendar Year 04												Calendar Year 05												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Launcher M270A1																															
	1	FY 98	A	21	21	0																									0
	1	FY 99	A	24	24	0																									0
	1	FY 00	A	39	39	0																									0
	1	FY 01	A	66	54	12	6	6																							0
	1	FY 01	FMS	10	0	10			1	1	1	1	1	1	1	1	1	1													0
	1	FY 02	A	35	0	35			3	3	3	3	3	3	3	3	3	3	3	2											0
Total				195	138	57	6	6	4	4	4	4	4	4	4	4	4	4	3	2											

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin M.&F.C.Sys, Dallas, Texas	2.00	8.00	12.00	0	1	INITIAL	8	2	24	26	
							REORDER	0	2	24	26	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: MLRS LAUNCHER (C65900)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07										LATER
							Calendar Year 06												Calendar Year 07										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Launcher M270A1																													
	1	FY 98	A	21	21	0																							0
	1	FY 99	A	24	24	0																							0
	1	FY 00	A	39	39	0																							0
	1	FY 01	A	66	66	0																							0
	1	FY 01	FMS	10	10	0																							0
	1	FY 02	A	35	35	0																							0
Total				195	195																								

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin M.&F.C.Sys, Dallas, Texas	2.00	8.00	12.00	0	1	INITIAL	8	2	24	26	
							REORDER	0	2	24	26	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: MLRS LAUNCHER (C65900)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09										LATER
							Calendar Year 08												Calendar Year 09										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Launcher M270A1																													
	1	FY 98	A	21	21	0																							0
	1	FY 99	A	24	24	0																							0
	1	FY 00	A	39	39	0																							0
	1	FY 01	A	66	66	0																							0
	1	FY 01	FMS	10	10	0																							0
	1	FY 02	A	35	35	0																							0
Total				195	195																								

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin M.&F.C.Sys, Dallas, Texas	2.00	8.00	12.00	0	1	INITIAL	8	2	24	26	
							REORDER	0	2	24	26	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1993	96	110	100	24							
Gross Cost	1360.4	88.6	90.8	97.1	34.3							
Less PY Adv Proc	75.1											
Plus CY Adv Proc	75.1											
Net Proc (P-1)	1360.4	88.6	90.8	97.1	34.3							
Initial Spares	4.2											
Total Proc Cost	1364.6	88.6	90.8	97.1	34.3							
Flyaway U/C												
Wpn Sys Proc U/C		0.9	0.8	1.0	1.4							

Description:

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

The Army Tactical Missile System (ATACMS) plays a critical role in supporting the Legacy Force Transformation to the Objective Force. ATACMS 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 or the High Mobility Artillery Rocket System (HIMARS) and are being deployed within the ammunition loads of Corps MLRS battalions and/or Division artillery MLRS batteries. HIMARS is a Legacy to Objective Force Weapons platform that provides a technology bridge to the Objective Force. Army TACMS includes the Guided Missile and Launcher Assembly, the Test Set, the Training Set, the Trainer, the Test Device, the Modified M270 launcher and the Army TACMS Missile Facilities (ATMF). ATACMS Unitary is also a critical asset for the Objective Force. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
The ATACMS Block IA supports the Army's Objective Force by providing the ground commander an air-transportable, deep-fire missile system that operates in nearly all weather conditions, day or night. The ATACMS Block IA is fired from the M270A1 and the High Mobility Artillery Rocket System, the technology bridge to the Objective Force. 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. FY 01 includes $6M to convert a limited quantity of Block IA missiles to deliver a unitary warhead for precise long-range engagements without the threat of collateral damage. FY 02 funds production of 24 ATACMS unitary missiles.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/Budget Activity/Serial No.: Missile Procurement, Army / 2 / OTHER MISSILES			P-1 Line Item Nomenclature: ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)			Weapon System Type:			Date: June 2001		
MSLS Cost Elements	ID CD	**FY 00**			**FY 01**			**FY 02**			**FY 03**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Missile Hardware - Recurring (BLK IA)													
Prime Contract		69774	110	634	70551	100	706	18240	24	760			
GFE													
Flight Kits													
Engineering Services		7775			8500			6200					
Engineering Change Orders (ECOs)													
Fielding		128			150			117					
SubTotal Missle Hardware		**77677**			**79201**			**24557**					
Procurement Support													
Project Management		3518			3480			2156					
Production Engineering Support		6125			8438			4103					
Test and Evaluation		2442			2525			2959					
Subtotal Procurement Support		**12085**			**14443**			**9218**					
Total Missile Flyaway		**89762**			**93644**			**33775**					
Command & Launch Hardware													
Command & Launch Integration Support		1015			900			488					
Subtotal C & L Integration		**1015**			**900**			**488**					
Support Costs													
Missile Test Device					2600								
ATMF Test and Support Equipment													
Subtotal Support Cost					**2600**								
Gross P-1 End Cost													
Less: Prior Year Adv Proc													
Net P-1Full Funding Cost													
PLUS P-1 CY Adv. Proc.													
Other Non P-1 Costs													
Initial Spares													
Total		**90777**			**97144**			**34263**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Prime Contract										
FY 2000	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	Dec 99	Mar 01	110	634	Yes		Sep 96
FY 2001	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	Dec 00	Feb 02	100	706	Yes		Sep 96
FY 2002	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	Dec 01	Apr 03	24	760	Yes		Sep 96

REMARKS:

FY 99 / 00 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 99												Fiscal Year 00										LATER
							Calendar Year 99												Calendar Year 00										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Army TACMS BLK IA Msl																													
	1	FY 99	A	96	0	96			A														5	8	8	7	7	7	7	8	39
	1	FY 00	A	110	0	110															A									110
	1	FY 01	A	100	0	100																								100
	1	FY 02	A	24	0	24																								24
Total				330		330																	5	8	8	7	7	7	7	8	273

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin Missiles, Dallas, TX	10.00	38.00	48.00	15	1	INITIAL	0	1	14	15	
							REORDER	0	1	14	15	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 01 / 02 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02										LATER
							Calendar Year 01												Calendar Year 02										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Army TACMS BLK IA Msl																													
	1	FY 99	A	96	57	39	8	8	7	7	9																		0
	1	FY 00	A	110	0	110						11	11	11	11	11	11	11	11	11	11									0
	1	FY 01	A	100	0	100			A														9	9	9	9	8	8	8	8	32
	1	FY 02	A	24	0	24																									24
Total				330	57	273	8	8	7	7	9	11	11	11	11	11	11	11	11	11	11		9	9	9	9	8	8	8	8	56

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

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin Missiles, Dallas, TX	10.00	38.00	48.00	15	1	INITIAL		0	1	14	15	
							REORDER		0	1	14	15	
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04										LATER
							Calendar Year 03												Calendar Year 04										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Army TACMS BLK IA Msl																													
	1	FY 99	A	96	96	0																							0
	1	FY 00	A	110	110	0																							0
	1	FY 01	A	100	68	32	8	8	8	8																			0
	1	FY 02	A	24	0	24							2	2	2	2	2	2	2	2	2	2	2	2					0
Total				330	274	56	8	8	8	8			2	2	2	2	2	2	2	2	2	2	2	2					

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin Missiles, Dallas, TX	10.00	38.00	48.00	15	1	INITIAL	0	1	14	15	
							REORDER	0	1	14	15	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /2/OTHER MISSILES

P-1 Item Nomenclature
ATACMS BLKII SYSTEM SUMMARY (CA6101)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		24	48	34	6							
Gross Cost		149.7	229.1	213.4	61.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		149.7	229.1	213.4	61.0							
Initial Spares				1.4	1.4							
Total Proc Cost		149.7	229.1	214.7	62.4							
Flyaway U/C												
Wpn Sys Proc U/C		6.2	4.8	6.3	10.2							

Description:

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

The Army Tactical Missile System Block II (ATACMS BLK II) is a version of the currently fielded and combat-proven Army TACMS Block I missile, a ground-launched, solid propellant, inertially guided (Global Positioning System aided) missile system with 13 BATs or P3I BATs as its payload. It is launched from the Multiple Launch Rocket System (MLRS) M270A1 launcher or the High Mobility Artillery Rocket System (HIMARS), the technology bridge to the Objective Force, and will be deployed within the ammunition loads of Corps MLRS battalions and/or Division artillery MLRS batteries. The BAT submunition employs acoustic and infrared (IR) sensors to detect, acquire and engage moving armored vehicles. The P3I BAT program will provide a new sensor suite (millimeter wave and imaging infrared), which greatly reduces the impact of weather and countermeasures on effectiveness and enables the BAT submunition to attack critical high priority targets, including cold, stationary, armored targets, Surface-to-Surface Missile (SSM) Transporter Erector Launchers (TELs), and Heavy Multiple Rocket Launchers (MRLs). This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:
The primary mission of the ATACMS BLK II is to provide the Army's Objective Force and Joint Forces with a deep strike capability to delay, disrupt, neutralize, or destroy armored combat vehicles/organization. The ATACMS BLK II missile is fired from the M270A1 launcher and the High Mobility Artillery Rocket System (HIMARS), the technology bridge to the Objective Force. ATACMS BLK II carries BAT and P3I BAT submunitions deep into enemy territory where these submunitions can automatically track and destroy targets. FY99 procured 24 ATACMS BLK II missiles to support low rate initial production (LRIP). FY00 procured 48 ATACMS BLK II missiles to support LRIP II. FY01 funding will procure 34 missiles to support LRIP III. FY02 funding will procure 6 ATACMS BLK II missiles.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 2 / OTHER MISSILES	P-1 Line Item Nomenclature: ATACMS BLKII SYSTEM SUMMARY (CA6101)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Missile Hardware - Recurring													
ATACMS Block II Missile System (CA6101)													
Prime Contract (BLK II Missile CA6105)		81002	48	1688	71790	34	2111	12793	6	2132			
Prime Contract (BAT Submunition CA6100)		136450	609	224	114840	505	227	18687	83	225			
Flight Kits		856			1594			3112					
Engineering Services		2219			3644			1000					
Engineering Change Orders (ECOs)													
Fielding					13			80					
SubTotal Missle Hardware		**220527**			**191881**			**35672**					
Procurement Support													
Project Management		4868			8580			9837					
Production Engineering Support		3002			7858			6755					
Test and Evaluation		551			2294			8096					
Subtotal Procurement Support		**8421**			**18732**			**24688**					
Total Missile Flyaway		**228948**			**210613**			**60360**					
Command & Launch Integration													
Command & Launch Integration Support					350			640					
SubTotal C&L Hardware					**350**			**640**					
Support Costs													
Missile Test Device and Trainer		103											
Army Tac Msl Fac Test & Spt Equipment					2396								
SubTotal Support Costs		**103**			**2396**								
Gross P-1 End Cost													
Less: Prior Year Adv Proc													
Net P-1Full Funding Cost													
PLUS P-1 CY Adv. Proc.													
Other Non P-1 Costs													
Initial Spares					1359			1371					
MODS													
TOTAL													
Total		**229051**			**214718**			**62371**					

Exhibit P-5a, Budget Procurement History and Planning

Date: June 2001

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Missile Procurement, Army / 2 / OTHER MISSILES		ATACMS BLKII SYSTEM SUMMARY (CA6101)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
ATACMS Block II Missile System (CA6101)										
FY 2000	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	DEC 99	JUL 02	48	4600	YES		AUG 99
FY 2001	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	AUG 01	JUL 03	34	5062	YES		NOV 00
FY 2002	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	DEC 01	MAR 04	6	5057			

REMARKS: The unit cost reflects the total hardware procurement dollars for one ATACMS Block II missile system. The ATACMS Block II system is comprised of the Block II missile with 13 BAT/P3I BAT submunitions.

FY 99 / 00 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ATACMS BLKII SYSTEM SUMMARY (CA6101)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 99												Fiscal Year 00										LATER
							Calendar Year 99												Calendar Year 00										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
ATACMS BLK II																													
	1	FY 99	A	24	0	24									A														24
	1	FY 00	A	48	0	48															A								48
	1	FY 01	A	34	0	34																							34
	1	FY 02	A	6	0	6																							6
Total				112		112																							112

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin Missiles, Dallas, TX	8.00	20.00	28.00	21	1	INITIAL	0	5	19	24	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 01 / 02 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ATACMS BLKII SYSTEM SUMMARY (CA6101)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02												LATER
							Calendar Year 01												Calendar Year 02												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
ATACMS BLK II																															
	1	FY 99	A	24	0	24												2	2	2	2	2	2	3	3	3	3				0
	1	FY 00	A	48	0	48																						4	4	4	36
	1	FY 01	A	34	0	34											A														34
	1	FY 02	A	6	0	6																									6
Total				112		112												2	2	2	2	2	2	3	3	3	3	4	4	4	76

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin Missiles, Dallas, TX	8.00	20.00	28.00	21	1	INITIAL	0	5	19	24	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ATACMS BLKII SYSTEM SUMMARY (CA6101)

Date: June 2001

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04										LATER
							Calendar Year 03												Calendar Year 04										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
ATACMS BLK II																													
	1	FY 99	A	24	24	0																							0
	1	FY 00	A	48	12	36	4	4	4	4	4	4	4	4	4														0
	1	FY 01	A	34	0	34										4	4	4	4	4	4	4	4	2						0
	1	FY 02	A	6	0	6																		2	4					0
Total				112	36	76	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4					

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Lockheed Martin Missiles, Dallas, TX	8.00	20.00	28.00	21	1	INITIAL	0	5	19	24	
							REORDER	0	0	0	0	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
PATRIOT MODS (C50700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
PATRIOT Modification Initial Spares, CA0267

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	430.9	14.1	49.6	22.7	37.6							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	430.9	14.1	49.6	22.7	37.6							
Initial Spares	52.4	4.9	3.6	2.6	0.7							
Total Proc Cost	483.3	19.0	53.2	25.3	38.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

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

Justification:
FY02 procures the planned system Growth Program which will add hardware enhancements/improvements to the PATRIOT Weapon System.

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
PATRIOT MODS (C50700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
PATRIOT Modification Initial Spares, CA0267

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
RLCEU											
1-92-03-1233-00-0000		26.1	12.6	14.7	0.0	0.0	0.0	0.0	0.0	0.0	53.4
Block VIII											
1-89-03-1230		17.3	5.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Integrated Diagnostic Support System											
1-97-03-1244		10.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
BCP (Link 16/JTIDS)											
1-97-03-1246		2.6	2.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
Tactical Command System											
1-98-03-1251		2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
RAM MODS											
1-98-03-1249		0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	12.5
SLEP - Cong Prior Approval Reprogramming pending.											
1-00-03-1252		19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5
Totals		78.8	22.7	37.6	0.0	0.0	0.0	0.0	0.0	0.0	139.1

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: RLCEU [MOD 1] 1-92-03-1233-00-0000

MODELS OF SYSTEM AFFECTED: ICC, 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 Bank 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 Station (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/MAJOR DEVELOPMENT MILESTONES:

	Planned	Accomplished
Preliminary Design Review	2QFY96	3QFY96
Critical Design Review (CDR)	4QFY96	4QFY96
Configuration Development Test & Evaluation (CDTE)	4QFY99	1QFY00
Force Development Test Experimentation (FDTE)	1QFY00	1QFY00
Limited User Testing (LUT)	2QFY00	3QFY00

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	16			4	4	6															
Outputs	9	4	3		4	4	6														

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Months

Contract Dates:	FY 2002	Dec 02	FY 2003	FY 2004	
Delivery Date:	FY 2002	Jun 04	FY 2003	FY 2004	

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): RLCEU [MOD 1] 1-92-03-1233-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	30	24.0	9	11.1	6	13.4														48.5
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	30	2.1																		2.1
FY 2001 -- Kits			9	1.5																1.5
FY 2002 Equip -- Kits					6	1.3														1.3
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	30	2.1	9	1.5	6	1.3		0.0		0.0		0.0		0.0		0.0		0.0		4.9
Total Procurement Cost		26.1		12.6		14.7		0.0		0.0		0.0		0.0		0.0		0.0		53.4

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Block VIII [MOD 2] 1-89-03-1230

MODELS OF SYSTEM 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 Engineering Change Proposals (ECPs). Corrections included in this Materiel Change 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 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:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	523	92	92	103	103	103	102	64	64												
Outputs	431	92	92	92	103	103	103	102	64												

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

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

Contract Dates:	FY 2002	Dec 00	FY 2003	Dec 01	FY 2004	Dec 02
Delivery Date:	FY 2002	Jun 01	FY 2003	Jun 02	FY 2004	Jun 03

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Block VIII [MOD 2] 1-89-03-1230

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	707	15.6	411	5.0	254	3.9														24.5
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	707	1.7																		1.7
FY 2001 -- Kits			411	0.4																0.4
FY 2002 Equip -- Kits					254	0.5														0.5
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	707	1.7	411	0.4	254	0.5		0.0		0.0		0.0		0.0		0.0		0.0		2.6
Total Procurement Cost		17.3		5.4		4.4		0.0		0.0		0.0		0.0		0.0		0.0		27.1

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Integrated Diagnostic Support System [MOD 3] 1-97-03-1244

MODELS OF SYSTEM 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 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	7	7				5															
Outputs	7		7				5														

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Integrated Diagnostic Support System [MOD 3] 1-97-03-1244

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	14	10.2	5	2.0																12.2
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	14	0.6																		0.6
FY 2001 – Kits			5	0.1																0.1
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	14	0.6	5	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.7
Total Procurement Cost		10.8		2.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		12.9

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: BCP (Link 16/JTIDS) [MOD 4] 1-97-03-1246

MODELS OF SYSTEM 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 PATRIOT Air Defense Information Language (PADIL) Data Link 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 are not applicable.

Installation Schedule:

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

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

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

Contract Dates:	FY 2002	Apr 02	FY 2003	Apr 03	FY 2004	Apr 04
Delivery Date:	FY 2002	Oct 02	FY 2003	Oct 03	FY 2004	Oct 04

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): BCP (Link 16/JTIDS) [MOD 4] 1-97-03-1246

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	8	2.3	7	2.3	11	5.4														10.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	8	0.3																		0.3
FY 2001 -- Kits			7	0.3																0.3
FY 2002 Equip -- Kits					11	0.6														0.6
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	8	0.3	7	0.3	11	0.6		0.0		0.0		0.0		0.0		0.0		0.0		1.2
Total Procurement Cost		2.6		2.6		6.0		0.0		0.0		0.0		0.0		0.0		0.0		11.2

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Tactical Command System [MOD 5] 1-98-03-1251

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

Provides for a modification/integration of the existing Tactical Command System shelters to integrate CHS-2 computers.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Major milestones are not applicable.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	15																				
Outputs	2	3	3	7																	

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Tactical Command System [MOD 5] 1-98-03-1251

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	15	2.4																		2.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	15	0.1																		0.1
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	15	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.1
Total Procurement Cost		2.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.5

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
STINGER MODS (C20000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C14900, C16000

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	89.4	13.4	21.9	33.0	5.8							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	89.4	13.4	21.9	33.0	5.8							
Initial Spares												
Total Proc Cost	89.4	13.4	21.9	33.0	5.8							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

The Stinger Block I missile upgrade incorporates hardware and software modifications into the Stinger-Reprogrammable Micro-Processor (RMP) Missile System to increase overall missile performance in certain engagement scenarios and to resolve a key aviation deficiency, which requires aviation platforms to super-elevate. The 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. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
The Stinger Block I program corrects deficiencies in engagements against head/tail-on and slow-moving targets, counter-measures, and night-time engagements and corrects a safety deficiency whereby aviation platforms must super-elevate to fire the missile. FY02 funds upgrades for Stinger firing platforms and Stinger training devices to replicate Block I performance characteristics.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
STINGER BLK I UPGRADES (C21300)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C14900, C16000

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	87.9	13.4	21.9	33.0	5.8							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	87.9	13.4	21.9	33.0	5.8							
Initial Spares												
Total Proc Cost	87.9	13.4	21.9	33.0	5.8							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Block I hardware and software modifications to the Stinger-Reprogrammable Micro-Processor (RMP) Missile System improve performance against targets which are slow-moving, employ advanced counter-measures, or operate at night. The 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. 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 Eraseable Read Only Memory Modules 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 system's Interface Electronics Assembly. The Stinger Troop Proficency Trainer is the primary trainer for Stinger gunners. It is scenario-driven and field-deployable. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
The Stinger Block I program corrects deficiencies in engagements against head/tail-on and slow-moving targets, counter-measures, and night-time engagements and corrects a safety deficiency whereby aviation platforms must super-elevate to fire the missile. FY02 funds upgrades for Stinger firing platforms and Stinger training devices to replicate Block I performance characteristics.

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
STINGER BLK I UPGRADES (C21300)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C14900, C16000

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Stinger Block I Missile Upgrades (C21300)											
01-87-03-1510	Added Capability	111.7	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.9
Stinger Block I Platform Upgrades (C21300)											
01-87-03-1510	Added Capability	11.5	1.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	14.3
Stinger Troop Proficiency Trainer											
TBD	Added Capability	0.0	1.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
Linebacker Training Devices											
TBD	Added Capability	0.0	3.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Totals		123.2	33.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	162.1

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Stinger Block I Missile Upgrades (C21300) [MOD 1] 01-87-03-1510

MODELS OF SYSTEM AFFECTED: Manpads, Avenger, Bradley Linebacker, Kiowa Warrior

DESCRIPTION/JUSTIFICATION:

The Stinger Block I Missile Upgrade material change incorporates hardware and software modifications into the Stinger-RMP missile system to increase overall missile performance in certain engagement scenarios and to resolve a key aviation deficiency which requires aviation 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 changes to the command and launch platforms, to include Air-to-Air Stinger, Avenger, and gripstocks used in shoulder-fired applications. This materiel change was recommended by the Air-to-Air Missile General Officer's Steering Committee as the near-term solution to the Stinger-RMP deficiencies.

Hardware and Installation Costs are included in the contract price for retrofits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development was completed in 1997.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	5350	400	347	237	237	239	247	261	263												
Outputs	4510	420	420	400	347	237	237	239	247												

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 18 Months

Contract Dates:	FY 2002	FY 2003	Jan 03	FY 2004 Jan 04
Delivery Date:	FY 2002	FY 2003	Jul 04	FY 2004 Jul 05

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Stinger Block I Missile Upgrades (C21300) [MOD 1] 01-87-03-1510

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	6970	111.7	1051	27.2	0															138.9
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		111.7		27.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		138.9

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Stinger Block I Platform Upgrades (C21300) [MOD 2] 01-87-03-1510

MODELS OF SYSTEM AFFECTED: Manpads, Avenger, Bradley Linebacker, Kiowa Warrior

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 Eraseable Read Only Memory (EEPROM) Modules must be procured and installed in existing, fielded gripstocks. For Air-to-Air Stinger, Bradley Linebacker, and Avenger, new A-1 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 the same as Stinger-RMP missiles, negating the Block I missile's improved performance.

ROM Modules are installed by government employees; A-1 circuit card assemblies are installed by contractors.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development was completed in 1997.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	3735	236	236	236	236	132	132	132	131												
Outputs	3735	236	236	236	236	132	132	132	131												

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

METHOD OF IMPLEMENTATION: Contractor & In-House ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 7 Months

Contract Dates:	FY 2002	Jan 02	FY 2003	Jan 03	FY 2004	Jan 04
Delivery Date:	FY 2002	Aug 02	FY 2003	Aug 03	FY 2004	Aug 04

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Stinger Block I Platform Upgrades (C21300) [MOD 2] 01-87-03-1510

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	4679	10.7	527	1.1	528	1.3														13.1
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	3735	0.8	944	0.2																1.0
FY 2001 Equip -- Kits					527	0.2														0.2
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	3735	0.8	944	0.2	527	0.2		0.0		0.0		0.0		0.0		0.0		0.0		1.2
Total Procurement Cost		11.5		1.3		1.5		0.0		0.0		0.0		0.0		0.0		0.0		14.3

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Stinger Troop Proficiency Trainer [MOD 3] TBD

MODELS OF SYSTEM AFFECTED: Manpads, Avenger, Bradley Linebacker

DESCRIPTION/JUSTIFICATION:

The Stinger Troop Proficiency Trainer (STPT) is the primary gunnery trainer for Stinger gunners and it is the only field deployable, scenario driven trainer available to units. The STPT is a lightweight, two man-portable training system which uses computer generated graphics and sound to provide a realistic training environment for Stinger gunners. The gunner views a missile mounted display and reacts to pre-programmed scenarios with single or multiple threats and friendly aircraft. The current STPT has significant training deficiencies, has never been upgraded, and is experiencing growing obsolescence of components, making sustainment difficult. This effort will upgrade the system to correct major training deficiencies, imp rove realism, and replace obsolete components with commercial off the shelf items. The upgrade will eliminate the need for the manpower intensive Moving Target Simulator (MTS) and Improved MTS, resulting in additional O&S cost savings.

Hardware, software, and installation are included in the total contract price to be provided by the contractor.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This involves commercial off the shelf equipment with integration of Stinger scenarios.

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 9 Months

Contract Dates:	FY 2002	Nov 01	FY 2003	FY 2004
Delivery Date:	FY 2002	Aug 02	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Stinger Troop Proficiency Trainer [MOD 3] TBD

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity			20	1.1	80	2.0														3.1
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		1.1		2.0		0.0		0.0		0.0		0.0		0.0		0.0		3.1

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Linebacker Training Devices [MOD 4] TBD

MODELS OF SYSTEM AFFECTED: Bradley Linebacker

DESCRIPTION/JUSTIFICATION:

The Bradley Linebacker Training Systems are used to train soldiers in Bradley Linebacker weapon system engagements and operations. The training devices provide gunner and commander proficiency training in missile and gun engagement of aerial and ground targets. The devices provide force-on-force engagement training at the Combat Training Centers (CTC) and provide an After Action Review (AAR) capability for missile and gun live fire engagements. Training device requirements were modified by the Director of Training and Doctrine, USAADASCH on 9 January 2001.

Hardware, software, and installation are included in the total contract price to be provided by the contractor.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This involves commercial off the shelf equipment and scenarios with integration of aerial and ground targets for Stinger Missile engagements.

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 Months

Contract Dates:	FY 2002	Jan 02	FY 2003		FY 2004
Delivery Date:	FY 2002	Jul 02	FY 2003		FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Linebacker Training Devices [MOD 4] TBD

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity			52	3.4	36	2.4														5.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		3.4		2.4		0.0		0.0		0.0		0.0		0.0		0.0		5.8

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
AVENGER MODS (CE8710)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C14900, C16000

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	26.6	8.3	4.2	6.8	18.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	26.6	8.3	4.2	6.8	18.0							
Initial Spares	1.0											
Total Proc Cost	27.6	8.3	4.2	6.8	18.0							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

AVENGER is a highly mobile, Stinger missile based, Short Range Air Defense system capable of day, night, adverse weather and shoot on-the-move engagement operations. It provides Division and Corps units with low altitude air defense against fixed and rotary wing threats, unmanned aerial vehicles and cruise missiles. Mounted on a High Mobility, Multipurpose Wheeled Vehicle, (HMMWV) and manned by a crew of two, the turreted system is equipped with 8 Stinger missiles and a very high rate of fire .50 cal machine gun. A Forward Looking Infrared Receiver (FLIR) provides Avenger with a night fighting capability. Production fire units are now equipped with a Slew-to-Cue capability that permits the system to automatically slew to externally reported radar tracks. By placing targets directly into the gunner's sight, time consuming manual searching is eliminated and detections and engagements are increased. Avenger can be remotely controlled and operated from the safety of a nearby foxhole/building/position. Additional capability is provided via an eye-safe laser range finder and a Mark XII crypto-secure Identification Friend or Foe (IFF) device. Because of its FLIR, video recording capability and machine gun, the system is routinely employed in Bosnia and Kosovo for nighttime roadblock security, crowd surveillance, and reconnaissance. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
The FY02 program initiates FLIR nonrecurring engineering activities, procures 68 Environmental Control Unit/Prime Power Unit (ECU/PPU) and 50 Slew-to-Cues (STCs). The STC is an Army category 2 digitization initiative that increases system performance/kills against all targets, especially low observable threats such as unmanned aerial vehicles and cruise missiles. Also, training capability is added at the National Training Center (NTC).

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
AVENGER MODS (CE8710)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
C14900, C16000

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Slew-To-Cue (STC)											
TBD	Added Capability	19.8	6.8	10.5	0.0	0.0	0.0	0.0	0.0	0.0	37.1
Environmental Power Unit/Prime Power Unit (ECU/PPU											
01-88-03-1515	Safety	19.3	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	22.9
FLIR/LRF											
TBD	Reliability	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	3.9
Totals		39.1	6.8	18.0	0.0	0.0	0.0	0.0	0.0	0.0	63.9

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Slew-To-Cue (STC) [MOD 1] TBD

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

Slew-to-Cue (STC) provides the fire unit with a required automatic, digital capability to rapidly slew to an externally reported radar target, placing it directly into the gunner's sighting field of view. This speeds engagements and increases kills by eliminating time consuming manual searches. The STC capability will be embedded into a new Common Fire Control Computer (CFCC) that replaces the existing obsolete fire control. This upgrade also replaces the existing obsolete Automatic Video Tracker (AVT) by embedding an improved AVT capability into the CFCC. The AVT aids the gunner by providing an automatic tracking capability.

STC/CFCC/AVT: STC is an Army category 2 digitization initiative that increases system performance/kills against all targets, especially low observable threats such as UAVs and cruise missiles. It will initially be fielded as part of the First Digitized Corps, then to the remaining force. CFCC/AVT replacement is required to replace critical obsolete components and improve performance. It will result in 50% improved performance, continued sustainment and lower O&S costs. The Avenger Required Operational Capability (ROC) was revised July 16, 1993.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	31	12	7		8	24	24	24	12												
Outputs	31	8	11			24	24	24	16												

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 11 Months

Contract Dates:	FY 2002	Nov 01	FY 2003	Nov 02	FY 2004	Nov 03
Delivery Date:	FY 2002	Oct 02	FY 2003	Oct 03	FY 2004	Oct 04

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Slew-To-Cue (STC) [MOD 1] TBD

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	111	14.8	40	4.7	50	6.8														26.3
Installation Kits																				
Nonrecurring Engineering																				
I&KP / NET Training		0.2		0.0		0.2														0.4
FAT / PCI		0.4																		0.4
Kit Refurbishment		0.6																		0.6
Engineering Services				0.3		0.7														1.0
Project Management		0.7		0.5		0.7														1.9
Contractor Logistics Support		2.5		1.1		1.2														4.8
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	31	0.6	19	0.2	61	0.6														1.4
FY 2001 -- Kits					27	0.3														0.3
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	31	0.6	19	0.2	88	0.9		0.0		0.0		0.0		0.0		0.0		0.0		1.7
Total Procurement Cost		19.8		6.8		10.5		0.0		0.0		0.0		0.0		0.0		0.0		37.1

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Environmental Power Unit/Prime Power Unit (ECU/PPU [MOD 2] 01-88-03-1515

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Environmental Control Unit/Prime Power Unit (ECU/PPU)is a required subsystem that provides turret air conditioning and provides a separate power source in lieu of vehicle battery power.
The ECU/PPU is required to eliminate a turret heat stress safety issue and to lift the conditional fire unit materiel release. ECU/PPU removes restrictions on operational use of Avenger in hot climates. This modification fulfills the user requirement for a separate, reliable power source and for heat and air conditioning to fully operate in broad spectrum combat environments (i.e., desert). The Avenger Required Operational Capability (ROC) was revised July 16, 1993.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	370																				
Outputs	370																				

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 12 Months

Contract Dates:	FY 2002	FY 2003	Feb 02	FY 2004
Delivery Date:	FY 2002	FY 2003	Feb 03	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Environmental Power Unit/Prime Power Unit (ECU/PPU [MOD 2] 01-88-03-1515

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	370	15.1			68	3.5														18.6
Installation Kits																				
Nonrecurring Engineering																				
Engineering Services						0.1														0.1
Net Training		0.5																		0.5
Program Management																				
Contractor Logistics Support		1.0																		1.0
--Production Verification Test																				
--																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	370	2.7																		2.7
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	370	2.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.7
Total Procurement Cost		19.3		0.0		3.6		0.0		0.0		0.0		0.0		0.0		0.0		22.9

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: FLIR/LRF [MOD 3] TBD

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Forward Looking Infrared Receiver (FLIR) is a night vision device that provides Avenger with its required night fighting capability. The Laser Range Finder (LRF) provides required target ranging for accurate gun engagements and to prevent missile launch against out of range targets.

The current FLIR and LRF are obsolete and perform poorly against today's low observable threats. Existing FLIR performance does not support the full range and capabilities of the newly fielded Stinger Block I missile and therefore can no longer meet user requirements. Due to obsolescence, production is ending and a replacement is required. The LRF is obsolete and is no longer produced; it performs poorly against small threat targets (i.e., UAVs, cruise missiles) and in ground clutter. Replacements are required now. The Avenger Required Operational Capability (ROC) was revised July 16, 1993.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months

Contract Dates:	FY 2002	FY 2003	FY 2004 Jan 04
Delivery Date:	FY 2002	FY 2003	FY 2004 Jan 05

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): FLIR/LRF [MOD 3] TBD

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Nonrecurring Engineering						2.9														2.9
I&KP / NET Training																				
Production Verification Test																				
Engineering Services						0.2														0.2
Program Management						0.8														0.8
Contractor Logistics Support																				
Other																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
--																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		3.9		0.0		0.0		0.0		0.0		0.0		0.0		3.9

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
ITAS/TOW MODS (C61700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	612.5	63.0	71.8	64.0	96.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	612.5	63.0	71.8	64.0	96.2							
Initial Spares	29.6	5.4										
Total Proc Cost	642.0	68.4	71.8	64.0	96.2							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

The TOW Improved Target Acquisition System (ITAS) is a critical system to the Legacy forces. ITAS is an upgrade to the light infantry's TOW 2 (tube-launched, optically tracked, wire command-link guided) weapon system and provides a capability that will defeat threat armored vehicles at extended ranges in all expected battlefield conditions. The ITAS was chosen as the off-the-shelf Anti-Tank Guided Missile (ATGM) variant readily available to meet the immediate needs of the National Command Authority and the CINCs plus the requirements of the Interim Armored Vehicle (IAV). ITAS provides an operational warfighting capability now to ensure combat overmatch and dominance at every point on the spectrum of operations. The missile modification Missile Ordnance Inhibit Circuit (MOIC) and Missile conversion (MC) are required to meet training and safety requirements in order to maintain TOW gunner proficiency. The Counter Active Protection System (CAPS) modification provides the TOW 2B missile with the capability to counter the Active Protection System (APS) currently being deployed on threat armor systems. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
Fiscal Years 02 funding is required for the procurement of ITAS in order to equip the Army's Legacy force with an extremely lethal and survivable anti-armor capability. ITAS is the future platform for the future TOW Fire and Forget missile and provides the National Command Authority and CINCs with an anti-armor option and capability for regional engagement, crisis response, and sustained land force operations.

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
ITAS/TOW MODS (C61700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Missile Conversion (HEAT TO PRACTICE)											
MC-1-82-03-3020	SAFETY	37.2	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	43.0
MISSILE MODIFICATION (MOIC)											
MC-1-82-03-3021	SAFETY	14.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	14.3
ITAS (IMPROVED TARGET ACQUISITION SYSTEM)											
MC-1-89-03-3028	OPERATIONAL	226.2	64.0	90.1	0.0	0.0	0.0	0.0	0.0	0.0	380.3
CAPS (COUNTER ACTIVE PROTECTION SYSTEM)											
MC-1-98-03-3030	OPERATIONAL	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
Totals		284.2	64.0	96.2	0.0	0.0	0.0	0.0	0.0	0.0	444.4

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Missile Conversion (HEAT TO PRACTICE) [MOD 1] MC-1-82-03-3020

MODELS OF SYSTEM AFFECTED: ITAS/TOW MISSILE SYSTEM BGM 71A, C, D) BTM 71A (C61700)

DESCRIPTION/JUSTIFICATION:

The modifications will convert TOW Basic, ITOW and TOW 2 heat missiles to practice missiles and install a Missile Ordnance Inhibit Circuit (MOIC) on missiles used for training. To prevent flyback, the MOIC opens the circuit between the missile battery and flight motor ignition and the safe and arming unlatch mechanism in the event of delay in ignition of the flight motor. Epoxy-coated T250 maraging steel was incorporated into a new design as a result of launch motor failures.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	63213																				
Outputs	63213																				

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 12 Months

Contract Dates:	FY 2002	Mar 02	FY 2003	Dec 02	FY 2004	Dec 03
Delivery Date:	FY 2002	Dec 02	FY 2003	Dec 03	FY 2004	Dec 04

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Missile Conversion (HEAT TO PRACTICE) [MOD 1] MC-1-82-03-3020

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	63213	22.3			4885	5.8														28.1
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	63213	14.9																		14.9
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	63213	14.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		14.9
Total Procurement Cost		37.2		0.0		5.8		0.0		0.0		0.0		0.0		0.0		0.0		43.0

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: ITAS (IMPROVED TARGET ACQUISITION SYSTEM) [MOD 3] MC-1-89-03-3028

MODELS OF SYSTEM AFFECTED: TOW Missile System Launcher (59300)

DESCRIPTION/JUSTIFICATION:

TOW ITAS Program is a technology insertion program to the current TOW Target Acquisition and Missile Guidance Subsystems. ITAS provides dramatically improved target detection and acquisition range, improved probability of hit and enhanced fire control capabilities that upgrades the anti-armor capability of forces using the TOW 2 system. ITAS will enable the force by providing a capability that has responsive, deployable, agile, versatile, sustainable characteristics now.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

PLANNED	ACCOMPLISHED
FUE Sep 98	Sep 98
Milestone III Decision May 99	Jun 99
Contract Conversion to Multiyear Nov 99	Dec 99

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	85		36	40	51	49	3	23	51												
Outputs	77		8	13	66	40			45												

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 10 Months PRODUCTION LEADTIME: 18 Months

Contract Dates:	FY 2002	Dec 01	FY 2003	Dec 02	FY 2004	Dec 03
Delivery Date:	FY 2002	Jun 03	FY 2003	Jun 04	FY 2004	Jun 05

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): ITAS (IMPROVED TARGET ACQUISITION SYSTEM) [MOD 3] MC-1-89-03-3028

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	323		119		177															
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		198.3		57.0		80.0														335.3
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data		1.1		0.1		0.1														1.3
Training Equipment		14.1		2.5		3.6														20.2
Support Equipment																				
Other		1.7		0.4		0.4														2.5
ICS/CLS Contractor Support		10.8		3.9		5.9														20.6
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	77	0.2	87	0.1	85	0.1														0.4
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	77	0.2	87	0.1	85	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.4
Total Procurement Cost		226.2		64.0		90.1		0.0		0.0		0.0		0.0		0.0		0.0		380.3

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: CAPS (COUNTER ACTIVE PROTECTION SYSTEM) [MOD 4] MC-1-98-03-3030

MODELS OF SYSTEM AFFECTED: TOW Missile System (C59300)

DESCRIPTION/JUSTIFICATION:

The Counter Active Protection Systems (CAPS)modification program provides a critical modification in support of the Legacy Force. Its purpose is to procure and apply CAPS modification kits to a contingency stock of TOW 2B missiles. The CAPS modification will provide the TOW 2B missile with the capability to counter the Active Protection System (APS) currently being deployed on threat armor systems. The modification kits will be applied to 1,000 TOW 2B missiles.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Qualification Flight Testing Completed: 2d Qtr, FY00
Production Contract Award Date: 24 May 00

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs					1000																
Outputs					1000																

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 8 Months PRODUCTION LEADTIME: 9 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): CAPS (COUNTER ACTIVE PROTECTION SYSTEM) [MOD 4] MC-1-98-03-3030

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	1000																			
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		6.8																		6.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		6.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		6.8

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
MLRS MODS (C67500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	237.4	2.8	5.8	16.3	23.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	237.4	2.8	5.8	16.3	23.6							
Initial Spares	14.6	0.0	0.0	0.8	0.9							
Total Proc Cost	252.0	2.8	5.8	17.2	24.5							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Modification kits are procured for previously manufactured Multiple Launch Rocket System (MLRS) launchers and associated training and ground support equipment. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:
The FY 02/03 program funding supports Transmission Electronic Controller upgrades, Interim Improved Position Determining System (IPDS), Launcher Contractor Logistics Support (CLS), Selective Availability Anti-Spoofing Module (SAASM), Joint Technical Architecture-Army (JTA-A), Suspension Lockout Improvement, and Obsolescence Mitigation/Engineering Change Proposal Reliability Integration.

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
MLRS MODS (C67500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Inactive Mods											
Prior Year MCs	Oper/Safety/Reliab	184.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	184.8
Transmission Electronic Controller (TEC)											
1-94-03-0522	Operational	34.7	1.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	39.7
Interim Improved Position Determining System Lchr											
1-95-03-0528	Operational	22.0	0.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	23.9
Selective Availability Anti-Spoofing Module											
1-96-03-0534	Operational	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Joint Technical Architecture-Army (JTA-A)											
1-97-03-0537	Operational	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	10.9
Improved Communications Processor (ICMP)											
1-98-03-0540	Operational	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Engine/Transmission Diagnostic											
1-98-03-0542	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vehicular Intercommunication (VIC)-3											
1-99-03-0544	Operational	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Azimuth Geared Bearing Dust Cover Modification											
1-99-03-0545	Reliability	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Weapons Interface Unit Modification											
1-99-03-0546	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Exhibit P-40M, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /3/MODIFICATIONS

P-1 Item Nomenclature
MLRS MODS (C67500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Suspension Lockout (SLO) Improvement											
1-99-03-0547	Reliability	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Joint Tactical Radio System (JTRS)											
1-00-03-0549	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obsolescence Mitigation/ECP Reliability Intg											
1-99-03-Obsc	Operational	2.8	12.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	19.9
Streamlined Technology Enhancement Prog (STEP)											
1-98-03-0541	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		246.0	16.3	23.7	0.0	0.0	0.0	0.0	0.0	0.0	286.0

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Transmission Electronic Controller (TEC) [MOD 2] 1-94-03-0522

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

The MLRS M993 Carrier / Vehicle Engine Drive Transmission Program has become a three phased upgrade program through the addition of the Transmission Electronic Controller (TEC). In FY93, the TEC was incorporated into the production of the M993 Carrier because it offered benefits to the system with increased power availability, ability to tow in neutral, decreased maintenance, improvements in operation on inclined grades, shift synchronization, improved fuel consumption, better performance in cold temperatures, and increased mobility in restricted areas. To achieve commonality this engineering change made it necessary to retrofit the non-production vehicles with TEC from FY95-FY97 - this program is known as the basic TEC modification program. The primary additions to this MOD are adding an Electronics Assembly (EA) to the carrier shift tower and replacing the mechanical controller with an Interface Assembly (IA), a brake sensor and other internal parts added to the transmission. This change with spares accounted for the modification of 653 transmissions. Later, the need for additional changes to the EA, IA and the addition of reinforced internal parts to the transmission were required. A cost/benefit analysis determined an immediate need for change, but indicated that a "total transmission" tear down program could not be executed fast enough to help unit Operational & Sustainment (O&S) costs. This urgent MLRS program to upgrade the EA and IA is known as TEC II program and accounted for the modification of 939 EAs and IAs to launchers and spares. An additional program known as TEC III was established that was originally set up to modify 897 transmissions. The total for all TEC programs is 2,489.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development complete - incorporated into Engineering Release Record.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	1592		195				70														
Outputs	1509	26	26	26	26	43	44	44	44												

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

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 5 Months

Contract Dates:	FY 2002	Jan 02	FY 2003	Jan 03	FY 2004	Jan 04
Delivery Date:	FY 2002	Jun 02	FY 2003	Jun 03	FY 2004	Jun 04

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Transmission Electronic Controller (TEC) [MOD 2] 1-94-03-0522

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	1738	26.7	70	0.2	100	0.3														27.2
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	1509	8.0	104	1.7	125	2.0														11.7
FY 2001 -- Kits					50	0.8														0.8
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	1509	8.0	104	1.7	175	2.8		0.0		0.0		0.0		0.0		0.0		0.0		12.5
Total Procurement Cost		34.7		1.9		3.1		0.0		0.0		0.0		0.0		0.0		0.0		39.7

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Interim Improved Position Determining System Lchr [MOD 3] 1-95-03-0528

MODELS OF SYSTEM 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 to incorporate a new requirement to fire the Army Tactical Missile System (ATACMS) Block IA. The Block IA missile was fielded in 1QFY98 and required Global Positioning System (GPS) interface at the time of launch. This modification incorporated the Interim Launcher Improved Position Determining System (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 was included in the cost of the modification kit. Funding for FY00 through FY04 provides interim contractor support of IPDS Launchers.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Modification has been integrated into the launchers as an interim program in support of the ATACMS Block IA.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	29																				
Outputs	29																				

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 0 Months

Contract Dates:	FY 2002	Jan 02	FY 2003	Jan 03	FY 2004	Jan 04
Delivery Date:	FY 2002		FY 2003		FY 2004	

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Interim Improved Position Determining System Lchr [MOD 3] 1-95-03-0528

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	29	18.0																		18.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support		4.0		0.5		1.4														5.9
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		22.0		0.5		1.4		0.0		0.0		0.0		0.0		0.0		0.0		23.9

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Selective Availability Anti-Spoofing Module [MOD 4] 1-96-03-0534

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

Enhancements to the Global Positioning System (GPS) are required to prevent tampering from outside sources. This change is required by the National Security Agency (NSA) to provide tamper resistant measures in maintaining national security with respect to GPS downlinks. These programs will be compatible with the emerging Electronic Key Management System (EKMS) and will call for an incorporation of a new Line Replaceable Unit (LRU) or the modification or replacement of the GPS Interface Circuit Card Assembly. These changes will be incorporated in the Interim Launcher Improved Position Determining System (IPDS) and the IFCS Position Navigational Unit (PNU). Future GPS enhancements for authorized DoD usage are required for NSA compliance in the FY08 time frame. This program is referred to as "military code" or "m-code".

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs							32	32	32												
Outputs																					

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

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 2 Months

Contract Dates:	FY 2002	Jan 02	FY 2003	Jan 03	FY 2004
Delivery Date:	FY 2002	Mar 03	FY 2003	Mar 03	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Selective Availability Anti-Spoofing Module [MOD 4] 1-96-03-0534

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					96	3.4														3.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		3.4		0.0		0.0		0.0		0.0		0.0		0.0		3.4

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Joint Technical Architecture-Army (JTA-A) [MOD 5] 1-97-03-0537

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

JTA-A is a Department of the Army mandated program that standardizes communication protocols and message formats for data transport among the Department of Defense services. The M270A1 Low Cost Fire Control Panel (LCFCP) provides the M270A1 Launcher with soldier-computer interface, external communication interfaces and internal system interfaces. It also provides a standard for information security as well as a standard for the Department of the Army Force XXI directed situational awareness enhancements to the soldier, ultimately reducing the chances of fratricide on the battlefield. This LCFCP is a Tactical Display set that consists of the following three components: Tactical Processor Unit (TPU), Gunner's Display Unit (GDU), and the Mass Storage Unit (MSU).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The LCFCP is a requirement for First Digitized Corps (FDC) by the end of FY04. The planned production cut-in of the LCFCP will be in the M270A1 Low Rate Initial Production (LRIP) IV FY01 contract, with procurement of retrofit LCFCPs beginning in FY02.

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Joint Technical Architecture-Army (JTA-A) [MOD 5] 1-97-03-0537

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					76	10.9														10.9
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		10.9		0.0		0.0		0.0		0.0		0.0		0.0		10.9

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Improved Communications Processor (ICMP) [MOD 6] 1-98-03-0540

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

The current Improved Communications Processor (ICMP) does not adhere to ICD 11508910, Level 4 for national protocol. This software glitch causes digital network problems, creating data transfer errors when multiple systems acess the net simultaneously. The Communications Controller Circuit Card Assemby modification in the ICMP corrects the "Net Access Delay" problem.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

User test completed 1QFY00. Modification initiated Jun 00 with 4ID. In FY 02, installation will be in conjunction with the M270A1 launcher production program.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	800																				
Outputs	337	79	44	83	257																

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

METHOD OF IMPLEMENTATION: Depot ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 2 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Improved Communications Processor (ICMP) [MOD 6] 1-98-03-0540

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	800	0.4																		0.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	337	0.5	463	0.4																0.9
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	337	0.5	463	0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.9
Total Procurement Cost		0.9		0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.3

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Vehicular Intercommunication (VIC)-3 [MOD 8] 1-99-03-0544

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

A requirement exists for an improved intercommunication and radio-control system within ground mobile combat vehicles. The Vehicular Intercommunication (VIC)-3 system was developed by the Vehicle Intercommunications System (VIS) Special Projects Office. This modification offers both operational safety enhancements to the M270 and M270A1 Launcher. These improvements are digital enhancements to improve speech quality and articulation, headsets that incorporate active noise reduction circuitry to increase the effectiveness of vehicle communications, and increased hearing protection in the noisy environment of combat vehicles. VIC-3 hardware was procured under the M270A1 launcher production program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation began in Jun 00.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	870																				
Outputs	123	186	187	180	194																

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

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Vehicular Intercommunication (VIC)-3 [MOD 8] 1-99-03-0544

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	123	0.3	747	0.5																0.8
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	123	0.3	747	0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.8
Total Procurement Cost		0.3		0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.8

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Azimuth Geared Bearing Dust Cover Modification [MOD 9] 1-99-03-0545

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System

DESCRIPTION/JUSTIFICATION:

A dust cover to shield sand and dust intrusion into the Azimuth Geared Bearing was developed to prevent contamination to the Line Replaceable Unit (LRU), thus preventing the bearing from seizing. This modification increases reliability of the Azimuth Geared Bearing and reduces cost to the fielded units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development complete.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	45			855																	
Outputs	45					77	77	77	76												

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

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Azimuth Geared Bearing Dust Cover Modification [MOD 9] 1-99-03-0545

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	45	0.1	855	0.5																0.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.1		0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.6

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Weapons Interface Unit Modification [MOD 10] 1-99-03-0546

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

The development of the MLRS Rocket has generated a requirement for a new circuit card to be added to the Improved Weapons Interface Unit (IWIU). This IWIU is one of the new Line Replaceable Units (LRU), which is a component of the Improved Fire Control System (IFCS) to be incorporated into the M270A1 Launcher. This circuit card, known as the Ethernet Hub card, and a modified W20 Cable will contain signal distribution functions, which will be incorporated into the IWIU instead of each individual rocket. These changes are planned for incorporation into 233 Weapons Interface Units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Contractor/Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months

Contract Dates:	FY 2002	Jan03	FY 2003	Jan04	FY 2004	Jan 05
Delivery Date:	FY 2002	Jan 04	FY 2003	Jan 05	FY 2004	Jan 06

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Weapons Interface Unit Modification [MOD 10] 1-99-03-0546

FINANCIAL PLAN: ($ in Millions)

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

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Suspension Lockout (SLO) Improvement [MOD 11] 1-99-03-0547

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION/JUSTIFICATION:

Suspension Lockout (SLO) seals have suffered contamination due to environmental constraints such that the M270 launcher system must leave its drain plugs in at all times to avoid petroleum, oils, lubricants and other contaminants from being exposed to the environment. The six boots connected from the torsion bars to the 17 SLO clutch pack housings are being modified to prevent the SLO system from internal water intrusion and internal contaminants.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development is complete on the SLO system improvement modification. The initial installation was funded in FY00 for modifications to 28 of the LRIP I and II M270A1 Launchers.

Installation Schedule:

	Pr Yr	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	28						20	20	20												
Outputs	28							20	20												

	FY 2006				FY 2007				FY 2008				FY 2009				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		88
Outputs																		

METHOD OF IMPLEMENTATION: Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months

Contract Dates:	FY 2002	Dec 03	FY 2003	Dec 04	FY 2004	Dec 05
Delivery Date:	FY 2002	Dec 03	FY 2003	Dec 04	FY 2004	Dec 05

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Suspension Lockout (SLO) Improvement [MOD 11] 1-99-03-0547

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	60	0.3			60	0.3														0.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits	28	0.1																		0.1
FY 2001 -- Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	28	0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.1
Total Procurement Cost		0.4		0.0		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.7

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE: Obsolescence Mitigation/ECP Reliability Intg [MOD 13] 1-99-03-Obsc

MODELS OF SYSTEM 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. Funding on this program procures modification kits which will incorporate improved components necessary to replace parts no longer available. In addition, this modification reestablishes the MLRS baseline at the optimal configuration for integration of the Improved Fire Control System and the Improved Launcher Mechanical System by aiding 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.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Modifications will be incorporated into production based on obsolescence analysis and determination.

Installation Schedule:

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

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

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

Contract Dates:	FY 2002	FY 2003	FY 2004
Delivery Date:	FY 2002	FY 2003	FY 2004

INDIVIDUAL MODIFICATION Date: June 2001

MODIFICATION TITLE (Cont): Obsolescence Mitigation/ECP Reliability Intg [MOD 13] 1-99-03-Obsc

FINANCIAL PLAN: ($ in Millions)

	FY 2000 and Prior		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		2.8		12.5		4.6														19.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip -- Kits																				
FY 2001 – Kits																				
FY 2002 Equip -- Kits																				
FY 2003 Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		2.8		12.5		4.6		0.0		0.0		0.0		0.0		0.0		0.0		19.9

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /4/SPARES AND REPAIR PARTS

P-1 Item Nomenclature
SPARES AND REPAIR PARTS (CA0250)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	2718.9	19.3	11.2	20.6	15.3							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	2718.9	19.3	11.2	20.6	15.3							
Initial Spares												
Total Proc Cost	2718.9	19.3	11.2	20.6	15.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Provides for the procurement of spares to support initial fielding of new or modified items.

Justification:
The funds in this account procure depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. FY 02 funds will procure Javelin, MLRS, ATACMS BLK II, Patriot Mods and MLRS Mods initial spares.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /5/SUPPORT EQUIPMENT AND FACILITIES

P-1 Item Nomenclature
AIR DEFENSE TARGETS (C93000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	363.5	2.5	2.4	2.4	3.3							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	363.5	2.5	2.4	2.4	3.3							
Initial Spares	1.3											
Total Proc Cost	364.8	2.5	2.4	2.4	3.3							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

The Air Defense Targets program provides target vehicles, scoring ancillary equipment and ground support equipment for worldwide active Army and Reserve Component air defense training. This training consists of STRAC required gun system live fire and Precision Gunnery System (PGS) training and scoring. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan(TCP).

Justification:
FY02 funds the 1/5th scale Remotely Piloted Vehicle Target(RPVT) and ancillary hardware consisting of scoring devices and ground support equipment in support of gun and Precision Gunnery System (PGS) training. These RPVTs support the Avenger, Bradley Stinger Fighting Vehicle (BSFV) and Linebacker fielded systems. Training requirements are generated by Department of Army Major Field Commands, Training Centers, and Division Level Commands. These field requirements have been reviewed against force restructuring plans and Transformation plans and are consistent with approved training doctrine.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /5/SUPPORT EQUIPMENT AND FACILITIES

P-1 Item Nomenclature
ITEMS LESS THAN $5.0M (MISSILES) (CL2000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	36.8	0.9	1.0	1.0	1.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	36.8	0.9	1.0	1.0	1.0							
Initial Spares												
Total Proc Cost	36.8	0.9	1.0	1.0	1.0							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Provides for the procurement of various tools and shop sets to support the Army's missile systems worldwide.

Justification:
FY02 funding is required for the procurement of tools and shop sets to support the following systems:

MLRS
TOW
AVENGER

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 5 / SUPPORT EQUIPMENT AND FACILITIES	P-1 Line Item Nomenclature: ITEMS LESS THAN $5.0M (MISSILES) (CL2000)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
MLRS													
Components		459			450			490					
Assembly		279			277			291					
TOW													
Components		22			20			25					
Assembly		12			12			13					
AVENGER													
Components		120			116			125					
Assembly		89			86			95					
NOTE: All are missile tool kits no mods. Each system has more than one kit with varying quantities and unit costs for each kit.													
Total		**981**			**961**			**1039**					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /5/SUPPORT EQUIPMENT AND FACILITIES

P-1 Item Nomenclature
MISSILE DEMILITARIZATION (HL2000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	4.9	1.5	1.4	1.3	1.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.9	1.5	1.4	1.3	1.4							
Initial Spares												
Total Proc Cost	4.9	1.5	1.4	1.3	1.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Missile Demilitarization Program demilitarizes Army missile and missile components that are unserviceable, obsolete or excess, to Army requirements.

Justification:
The missile and missile components stockpile is increasing due to inventory aging, army modernization efforts, and serviceability issues caused by increased deployments. The stockpile today is over 60,000 missiles and continues to expand peaking in FY-06 and growing to over 600,000 by FY-14. Currently, the Army relies on Open Burn/Open Detonation (OB/OD) destruction methods. However, due to Executive Order 13101 "Greening the Government", an aggressive demilitarization program to move from OB/OD to Resource Recovery and Recycling (R3) is required. Funding in FY02 will continue to process demilitarization requirements using OB/OD methods.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No. Missile Procurement, Army / 5 / SUPPORT EQUIPMENT AND FACILITIES	P-1 Line Item Nomenclature: MISSILE DEMILITARIZATION (HL2000)	Weapon System Type:	Date: June 2001

MSLS Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Shillelagh					599	3335	0	750	5000	0			
Nike-Hercules		150	200	1									
R 3 Contract													
Tow		250	500	1	151	2700	1						
R 3 Acq.Study		985	1	985									
Tow R3					422	800	1	432	864	1			
Hawk Motors					64	69	1	100	100	1			
Tow/MLRS					13	30	0						
Stinger					52	167	0	76	276	0			
Patriot					28	46	1						
Total		**1385**			**1329**			**1358**					

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /5/SUPPORT EQUIPMENT AND FACILITIES

P-1 Item Nomenclature
PRODUCTION BASE SUPPORT (CA0100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	596.1	3.2	3.2	3.1	3.4							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	596.1	3.2	3.2	3.1	3.4							
Initial Spares												
Total Proc Cost	596.1	3.2	3.2	3.1	3.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

This program provides Production Base Support and Equipment Replacement (PSR) of Government-owned equipment used in production and production testing of missile systems or missile components.

Justification:
FY02 will be used to establish, modernize, expand or replace Army-owned industrial facilities. These funds are essential to sustain the Army's missile warhead production capability, to eliminate safety hazards by replacing worn equipment, and to refurbish facilities.

Exhibit P-40, Budget Item Justification Sheet

Date: June 2001

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army /5/SUPPORT EQUIPMENT AND FACILITIES

P-1 Item Nomenclature
PIF FOR OTHER (CA4002)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	297.6	3.2	3.2	3.1	3.4							
Less PY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0							
Net Proc (P-1)	297.6	3.2	3.2	3.1	3.4							
Initial Spares												
Total Proc Cost	297.6	3.2	3.2	3.1	3.4							
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Iowa Army Ammunition Plant: This program provides funding for Iowa Army Ammunition Plant's (AAP) continuing modernization of production of missile end items. The FY 2002 effort is to procure, install, and setup a Computer Numerically Controlled (CNC) Drill Mill System to replace the milling machine in the Tool and Die Shop. The effort will replace the existing heating, ventilation, and air conditioning (HVAC) system in Building 4B-22, as well as replace asbestos insulation. The project will also perform a sanitary sewer renovation within Line 4B as part of a plant-wide effort to tighten the sanitary sewer collection system and eliminate ground water and surface water infiltration in order to meet state-mandated regulations. This effort will replace approximately 3,100 linear feet of water main on Line 4B.

Army Test and Evaluation Command (ATEC): This program provides funding to the ATEC, Developmental Test Command (DTC) to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Missiles and Missile components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment generally provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. At DTC, funding is required to upgrade or replace production test instrumentation and equipment at Redstone Technical Test Center (RTTC), Huntsville, Al and White Sands Missile Range (WSMR), NM. This project supports all transition paths of the Army Transformation Campaign Plan (TCP).

Justification:
FY02 funds will be used for the establishment, augmentation, and improvement of production capability for items procured under the missile appropriation at Iowa AAP. Since the installation was constructed during World War II, much of its infrastructure is in dire need of updating. Due to its age and usage, the 27-year-old milling machine has become unreliable, will no longer hold tight tolerances, and has difficulty in repeatability. The existing HVAC dates to the early 1940s.

Exhibit P-40C, Budget Item Justification Sheet		Date: June 2001
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /5/SUPPORT EQUIPMENT AND FACILITIES	P-1 Item Nomenclature PIF FOR OTHER (CA4002)	
Program Elements for Code B Items:	Code:	Other Related Program Elements:

Since close tolerance of temperature and humidity is required to produce quality missile warheads, a reliable system is required. Tuberculation of existing watermain has resulted in thinning and weakening of the lines. This deterioration can seriously affect the capacity as well as fire fighting capability. These funds are also used to correct environmental problems which, if left unfunded, would result in costly fines and penalties against the Army.

Army Test and Evaluation Command (ATEC):
FY02 procures: At RTTC, replacement of aging flight test instrumentation at the small missile production test range with automated, remotely controlled and configured devices, high speed digital video for the Static Test Branch and replacement of aged instrumentation and equipment used in the dissection of rocket motors, and at WSMR, replacement instrumentation to remotely control and monitor testing on live missile warheads; replacement sensors, telemetry equipment, time, space and position instrumentation, radio frequency measurement instruments and data processing equipment used for pre-launch missile systems measurements; sensors, acceleramoters and amplifiers for shock and vibration testing; replacement environmental conditioning equipment with non-ozone depleting refrigerants; chemical analysis and monitoring equipment for analyzing missile exhaust gases and wastes; and upgrade of centrifuges and remote disassembly/assembly instrumentation for missile safe/arm fuse testing. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.