## **DEPARTMENT OF THE ARMY**

## **Procurement Programs**



Committee Staff Procurement Backup Book FY 2004/ FY 2005 Biennial Budget Submission

**MISSILE PROCUREMENT, ARMY** 

## 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, \$1,459,462,000, to remain available for obligation until September 30, 2006.

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## DEPARTMENT OF THE ARMY FY 2004 PROCUREMENT PROGRAM President's Budget 2004/2005

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## DEPARTMENT OF THE ARMY

### FY 2004 PROCUREMENT PROGRAM President's Budget 2004/2005

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APPROPRIATION SUMMARY APPROPRIATION

Missile Procurement, Army

TOTAL PROCUREMENT PROGRAM

PAGE	FY 2005	FY 2004	FY 2003	FY 2002	-
3	1,408,639	1,459,462	1,077,448	1,028,981	
	1,408,639	1,459,462	1,077,448	1,028,981	-

## DEPARTMENT OF THE ARMY

## FY 2004 PROCUREMENT PROGRAM President's Budget 2004/2005

**DOLLARS IN THOUSANDS** 

**EXHIBIT P-1 DATE:** 04-Mar-2003 16:40

## APPROPRIATION Missile Procurement, Army

	ACTIVITY	FY 2002	FY 2003	FY 2004	FY 2005	PAGE
02	Other missiles	893,675	769,896	1,152,385	1,249,774	4
03	Modification of missiles	110,211	240,237	249,640	117,748	6
04	Spares and repair parts	15,116	54,950	50,542	34,082	7
05	Support equipment and facilities	9,979	12,365	6,895	7,035	8
	APPROPRIATION TOTALS	1,028,981	1,077,448	1,459,462	1,408,639	

## DEPARTMENT OF THE ARMY

## FY 2004 PROCUREMENT PROGRAM President's Budget 2004/2005

APPROPRIATION Missile Procurement, Army

**ACTIVITY** 02 Other missiles

DOLLARS IN THOUSANDS

7	The restriction wild be reconciled to the restriction of the restricti		FY 2002		FY 2003		FY 2004		FY 2005	
LINE NO	ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST
-										
	SURFACE-TO-AIR MISSILE SYSTEM									
1	PATRIOT SYSTEM SUMMARY (C49100)	А					108	561,555	131	490,754
2	CTINICED CVCTEM CLIMMADY (CAOCOO)	۸	200	20.047	400	25 442		2.042		
2	STINGER SYSTEM SUMMARY (C18500)	Α	300	28,847	160	25,442		2,942		
3	AVENGER SYSTEM SUMMARY (C14900)			11,486						
4	Surface-Launched AMRAAM System Summary: (C81001)	Α						7,452		22,016
	SUB-ACTIVITY TOTAL		_	40,333	_	25,442	_	571,949	_	512,770
						·		·		
	AIR-TO-SURFACE MISSILE SYSTEM									
5	HELLFIRE SYS SUMMARY (C70000)	Α		(249,938)		(190,662)		(33,061)		(28,526)
	Less: Advance Procurement (PY)		_	(-11,599)	_	(-9,479)	_		_	
				238,339		181,183		33,061		28,526
6	APKWS (Advanced Precision Kill Weapon System) (C70301)									14,442
7	APKWS (Advanced Precision Kill Weapon System) (C70301) Advance Procurement (CY)									6,124
	SUB-ACTIVITY TOTAL		_		_	101 100	_		_	
	SUB-ACTIVITI TOTAL			238,339		181,183		33,061		49,092
	ANTI-TANK/ASSAULT MISSILE SYSTEM									
8	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)		4,139	(425,847)	1,478	(228,117)	901	(133,115)	1,062	(123,264)
	Less: Advance Procurement (PY)		_	(-17,171)	_	(-8,950)	_		_	(-7,600)
9	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)			408,676		219,167		133,115		115,664
· ·	Advance Procurement (CY)							7,600		
10	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000)					(111)	76	(43,232)	165	(86,585)
-	Less: Advance Procurement (PY)				_	(-111)	_		_	<u> </u>
11	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000)					0		43,232		86,585
11	Advance Procurement (CY)			111						

**EXHIBIT P-1** 

## DEPARTMENT OF THE ARMY FY 2004 PROCUREMENT PROGRAM

President's Budget 2004/2005

APPROPRIATION Missile Procurement, Army ACTIVITY 02 Other missiles

DOLLARS IN THOUSANDS

			FY	2002	FY	2003	FY 2	2004	FY	2005
LINE NO	ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST
12	TOW 2 SYSTEM SUMMARY (C59300) Less: Advance Procurement (PY)	А					200	(10,010)	500	(39,267) (-12,946)
13	TOW 2 SYSTEM SUMMARY (C59300) Advance Procurement (CY)						_	10,010 16,366	_	26,321
14	GUIDED MLRS ROCKET (GMLRS) (C65404)				108	36,550	786	107,759	1,026	112,646
15	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) (C65405)				3,366	15,647	2,934	14,646	3,054	15,530
16	MLRS LAUNCHER SYSTEMS (C66400)		41	130,606	34	134,742		40,155		41,326
17	HIMARS LAUNCHER (C03000)				28	128,621	24	124,191	37	169,778
18	ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)	В	24	34,962	16	28,544	50	50,301	50	51,569
19	ATACMS BLKII SYSTEM SUMMARY (CA6101)	А		40,648						
20	ATACMS Penetrator (CA6111)	А							39	68,493
	SUB-ACTIVITY TOTAL		_	615,003	_	563,271	_	547,375		687,912
	ACTIVITY TOTAL		_	893,675	_	769,896	_	1,152,385	_	1,249,774

**EXHIBIT P-1** 

## **DEPARTMENT OF THE ARMY**

President's Budget 2004/2005

**ACTIVITY** 03 Modification of missiles

APPROPRIATION Missile Procurement, Army

**FY 2004 PROCUREMENT PROGRAM** 

**DOLLARS IN THOUSANDS** 

	· · · · · · · · · · · · · · · · · · ·		FY	2002	FY	2003	FY	2004	FY	2005
LINE NO	ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	MODIFICATIONS									
21	PATRIOT MODS (C50700)			24,819		148,671		212,575		86,131
22	STINGER MODS (C20000)			5,761		1,467		973		
23	AVENGER MODS (CE8710)			1,877						
24	ITAS/TOW MODS (C61700)			64,316		58,918		15,707		9,814
25	MLRS MODS (C67500)			13,438		31,181		19,918		21,328
26	HIMARS MODIFICATIONS: (NON AAO) (C67501)							467		475
	SUB-ACTIVITY TOTAL		-	110,211	•	240,237	•	249,640	<del>-</del>	117,748
	ACTIVITY TOTAL		-	110,211	•	240,237	-	249,640	_	117,748

**EXHIBIT P-1** 

## DEPARTMENT OF THE ARMY

#### FY 2004 PROCUREMENT PROGRAM President's Budget 2004/2005

**EXHIBIT P-1 DATE:** 04-Mar-2003 16:40

APPROPRIATION Missile Procurement, Army **ACTIVITY** 04 Spares and repair parts **DOLLARS IN THOUSANDS** FY 2002 FY 2003 FY 2004 FY 2005 LINE NO ITEM NOMENCLATURE ID QTY COST QTY COST QTY COST QTY COST SPARES AND REPAIR PARTS 27 15,116 54,950 50,542 34,082 SPARES AND REPAIR PARTS (CA0250) SUB-ACTIVITY TOTAL 15,116 54,950 50,542 34,082 **ACTIVITY TOTAL** 15,116 54,950 50,542 34,082

## **DEPARTMENT OF THE ARMY**

## **FY 2004 PROCUREMENT PROGRAM**

President's Budget 2004/2005

**ACTIVITY** 05 Support equipment and facilities

APPROPRIATION Missile Procurement, Army

**DOLLARS IN THOUSANDS** 

		F	Y 2002	FY	2003	FY	2004	FY	2005
LINE NO	ITEM NOMENCLATURE ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	SUPPORT EQUIPMENT AND FACILITIES								
28	AIR DEFENSE TARGETS (C93000)		3,286		3,349		3,464		3,556
29	ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)		1,027		891		10		10
30	MISSILE DEMILITARIZATION (HL2000)		2,330		4,811				
31	PRODUCTION BASE SUPPORT (CA0100)		3,336		3,314		3,421		3,469
	SUB-ACTIVITY TOTAL		9,979	•	12,365	-	6,895	-	7,035
	ACTIVITY TOTAL		9,979	,	12,365	-	6,895	-	7,035
	APPROPRIATION TOTAL		1,028,981	•	1,077,448	-	1,459,462	=	1,408,639

**EXHIBIT P-1** 

#### NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
C93000	28	8	AIR DEFENSE TARGETS (C93000)
C70301	6	4	APKWS (Advanced Precision Kill Weapon System) (C70301)
C70301	7	4	APKWS (Advanced Precision Kill Weapon System) (C70301)
C98510	18	5	ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)
CA6101	19	5	ATACMS BLKII SYSTEM SUMMARY (CA6101)
CA6111	20	5	ATACMS Penetrator (CA6111)
CE8710	23	6	AVENGER MODS (CE8710)
C14900	3	4	AVENGER SYSTEM SUMMARY (C14900)
C65404	14	5	GUIDED MLRS ROCKET (GMLRS) (C65404)
C70000	5	4	HELLFIRE SYS SUMMARY (C70000)
C03000	17	5	HIMARS LAUNCHER (C03000)
C67501	26	6	HIMARS MODIFICATIONS: (NON AAO) (C67501)
C61700	24	6	ITAS/TOW MODS (C61700)
CL2000	29	8	ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)
CC0007	8	4	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
CC0007	9	4	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
C70000	5	4	Less: Advance Procurement (PY)
CC0007	8	4	Less: Advance Procurement (PY)
H09000	10	4	Less: Advance Procurement (PY)
C59300	12	5	Less: Advance Procurement (PY)
H09000	10	4	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000)
H09000	11	4	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000)
HL2000	30	8	MISSILE DEMILITARIZATION (HL2000)
C66400	16	5	MLRS LAUNCHER SYSTEMS (C66400)
C67500	25	6	MLRS MODS (C67500)
C65405	15	5	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) (C65405)
C50700	21	6	PATRIOT MODS (C50700)
C49100	1	4	PATRIOT SYSTEM SUMMARY (C49100)
CA0100	31	8	PRODUCTION BASE SUPPORT (CA0100)
CA0250	27	7	SPARES AND REPAIR PARTS (CA0250)
C20000	22	6	STINGER MODS (C20000)
C18500	2	4	STINGER SYSTEM SUMMARY (C18500)
C81001	4	4	Surface-Launched AMRAAM System Summary: (C81001)
C59300	12	5	TOW 2 SYSTEM SUMMARY (C59300)
C59300	13	5	TOW 2 SYSTEM SUMMARY (C59300)

#### SSN INDEX

SSN	LINE	PAGE	NOMENCLATURE
C03000	17	5	HIMARS LAUNCHER (C03000)
C14900	3	4	AVENGER SYSTEM SUMMARY (C14900)
C18500	2	4	STINGER SYSTEM SUMMARY (C18500)
C20000	22	6	STINGER MODS (C20000)
C49100	1	4	PATRIOT SYSTEM SUMMARY (C49100)
C50700	21	6	PATRIOT MODS (C50700)
C59300	12	5	TOW 2 SYSTEM SUMMARY (C59300)
C59300	12	5	Less: Advance Procurement (PY)
C59300	13	5	TOW 2 SYSTEM SUMMARY (C59300)
C61700	24	6	ITAS/TOW MODS (C61700)
C65404	14	5	GUIDED MLRS ROCKET (GMLRS) (C65404)
C65405	15	5	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) (C65405)
C66400	16	5	MLRS LAUNCHER SYSTEMS (C66400)
C67500	25	6	MLRS MODS (C67500)
C67501	26	6	HIMARS MODIFICATIONS: (NON AAO) (C67501)
C70000	5	4	HELLFIRE SYS SUMMARY (C70000)
C70000	5	4	Less: Advance Procurement (PY)
C70301	6	4	APKWS (Advanced Precision Kill Weapon System) (C70301)
C70301	7	4	APKWS (Advanced Precision Kill Weapon System) (C70301)
C81001	4	4	Surface-Launched AMRAAM System Summary: (C81001)
C93000	28	8	AIR DEFENSE TARGETS (C93000)
C98510	18	5	ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM (C98510)
CA0100	31	8	PRODUCTION BASE SUPPORT (CA0100)
CA0250	27	7	SPARES AND REPAIR PARTS (CA0250)
CA6101	19	5	ATACMS BLKII SYSTEM SUMMARY (CA6101)
CA6111	20	5	ATACMS Penetrator (CA6111)
CC0007	8	4	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
CC0007	8	4	Less: Advance Procurement (PY)
CC0007	9	4	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
CE8710	23	6	AVENGER MODS (CE8710)
CL2000	29	8	ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)
H09000	10	4	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000)
H09000	10	4	Less: Advance Procurement (PY)
H09000	11	4	LINE OF SIGHT ANTI-TANK (LOSAT) SYSTEM SUM (H09000)
HL2000	30	8	MISSILE DEMILITARIZATION (HL2000)

## **Exhibit P-1M, Procurement Programs - Modification Summary**

System/Modification	2002 & Prior	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	<u>2008</u>	2009	To Complete Total Program
PATRIOT MODS (C50700)									
RLCEU	53.4	22.5	43.2	10.7					129.8
Integrated Diagnostic Support System	12.9								12.2
BCP (Link 16/JTIDS)	11.2	13.8	19.1	7.3					51.4
Tactical Command System	2.5								2.4
RAM MODS	26.9	10.8	11.5	23.2	20.9	38.1	51.0	27.4	209.7
Radar Phase III		43.7	65.6						109.3
CDI Phase III		17.0	25.5						42.5
TCS (TIBS/IBS, FO, C4I, NMNG)		14.3	11.4	11.3	9.1	9.8			56.0
Recapitalization		26.6	36.3	33.6	45.4	29.6	20.9	14.5	206.9
Total	106.9	148.7	212.6	86.1	75.4	77.5	71.9	41.9	820.2
STINGER BLK I UPGRADES (C21300)									
Stinger Block I Platform Upgrades (C21300)	14.2	1.5	1.0						16.7
Stinger Block I Missile Upgrades (C21300)	138.9								138.9
Stinger Troop Proficiency Trainer	3.1								3.1
Linebacker Training Devices	5.8								5.8
Total	162.0	1.5	1.0						164.5
AVENGER MODS (CE8710)									
Slew-To-Cue (STC)	27.9								27.9
Environmental Control Unit/Prime Power Unit	20.0								20.0
Total	47.8								47.8
ITAS/TOW MODS (C61700)									
Missile Conversion (HEAT TO PRACTICE)	40.7	5.4	1.4						0.4 47.9
MISSILE MODIFICATION (MOIC)	14.0								
ITAS (IMPROVED TARGET ACQUISITION SYSTEM)	352.0	53.5	14.3	9.8	9.7				439.3

## **Exhibit P-1M, Procurement Programs - Modification Summary**

System/Modification	2002 & Prior	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	<u>2008</u>	<u>2009</u>	To Complete	Total Program
CAPS (COUNTER ACTIVE PROTECTION SYSTEM)  Total	13.6 <b>420.3</b>	58.9	15.7	9.8	9.7				0.4	6.8 <b>494.0</b>
Total	420.3	58.9	15./	9.8	9.7				0.4	494.0
MLRS MODS (C67500)										
Inactive Mods	220.3									220.3
Interim Improved Position Determining System Lchr	23.9	1.4	1.4							26.7
Selective Availability Anti-Spoofing Module							13.1	2.3	6.3	21.7
Joint Technical Architecture-Army (JTA-A)	11.1	0.3	0.3	7.2	4.1	3.7				27.2
Improved Weapons Interface Unit Modification MOD		14.5	4.4	4.7	2.8	0.7				27.2
Engine/Transmission Diagnostic (Common IEDB)				1.1	1.7	2.4	2.9	2.6	0.2	10.8
Streamlined Technology Enhancement Program (STEP)									105.8	105.8
M270A1 Generator Improvements			1.1	0.8	0.8	0.1				2.8
Obsolescence Mitigation/ECP Reliability Intg	11.2	4.8	3.3	3.2	2.8	2.3	2.9	1.9	27.8	60.2
600 hp Engine Conversion		5.9	6.5	0.5						13.0
Environmental Control Unit/Auxiliary Power Unit		4.2	2.8	3.8	3.9	0.8				15.5
Total	266.5	31.2	19.8	21.4	16.1	9.9	19.3	6.7	140.1	531.1
HIMARS MODIFICATIONS: (NON AAO) (C67501)										
Block Reliability MODs			0.2	0.2	3.2	8.4	12.7	5.0	119.0	148.7
Cordless Vehicular Intercommunication System (VIS)					4.1	2.6	2.6	2.6	1.9	13.8
Obsolescence Mitigation			0.3	0.3	0.7	0.9	0.8	0.7	10.9	14.7
Total			0.5	0.5	8.1	12.0	16.1	8.4	131.8	177.3
Grand Total	1003.6	240.2	249.5	117.8	109.4	99.4	107.3	56.9	272.3	2234.9

Ex	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2003		
Appropriation/Budget Ad Missile Procurement, Army	•					P-1 Item Nom PAT		EM SUMMAR	Y (C49100)			
Program Elements for Co	ode B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	6575				108	131	144	144	184	184		7470
Gross Cost	9766.1				561.6	490.8	490.9	490.8	620.5	626.6		13047.1
Less PY Adv Proc	123.3											123.3
Plus CY Adv Proc	123.3											123.3
Net Proc (P-1)	9766.1				561.6	490.8	490.9	490.8	620.5	626.6		13047.1
Initial Spares	344.3											344.3
Total Proc Cost	10110.3				561.6	490.8	490.9	490.8	620.5	626.6		13391.4
Flyaway U/C												
Wpn Sys Proc U/C					5.2	3.7	3.4	3.4	3.4	3.4		

## **Description:**

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. 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. Funds will ensure PAC-3 will remain interoperable in the BMDS. The PAC-3 program was transferred from the Army back to the Missile Defense Agency (MDA) in FY03 per Congressional direction. The Army requirement for PAC-3 supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

#### Justification:

JUSTIFICATION: FY04/05 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.

Note: Missile quantities may be reduced (FY04-FY09) as a result of inflation adjustments and negotiations with the contractor. The prior year funding and quantities shown above reflect pre-PAC-3 configuration.

Ex	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	Sebruary 2003		
Appropriation/Budget A Missile Procurement, Army						P-1 Item Nom PAT	enclature RIOT PAC-3	(C49200)				
Program Elements for C	ode B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	6475				108	131	144	144	184	184		7370
Gross Cost	5064.5				561.6	490.8	490.9	490.8	620.5	626.6		8345.5
Less PY Adv Proc	123.3											123.3
Plus CY Adv Proc	123.3											123.3
Net Proc (P-1)	5064.5				561.6	490.8	490.9	490.8	620.5	626.6		8345.5
Initial Spares												
Total Proc Cost	5064.5				561.6	490.8	490.9	490.8	620.5	626.6		8345.5
Flyaway U/C												
Wpn Sys Proc U/C					5.2	3.7	3.4	3.4	3.4	3.4		

## **Description:**

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. 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. Funds will ensure PAC-3 will remain interoperable in the BMDS. The PAC-3 program was transferred from the Army back to the Missile Defense Agency (MDA) in FY03 per Congressional direction. The Army requirement for PAC-3 supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

#### Justification:

JUSTIFICATION: FY04/05 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.

Note: Missile quantities may be reduced (FY04-FY09) as a result of inflation adjustments and negotiations with the contractor. The prior year funding and quantities shown above reflect pre-PAC-3 configuration.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/I Missile Procu		rity/Serial No. / 2 / Other missiles		P-1 Line I PATRIOTI	tem Nomenclatur PAC-3 (C49200)	e:		Weapon System T	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	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 Field Surveillance Obsolescence								341045 24276 8372	108	3157.8	316689 21180 8504	131	2417.5
SUBTOTAL								373693			346373		
Non-Recurring Costs Initial Production Facilitization								45000					
SUBTOTAL								45000					
Ground Support Equipment Radar Phase III CDI Phase III RLCEU Command Launch System MIDS Initial Spares								34084			33630		
SUBTOTAL								34084			33630		
Support Cost Contractor Engineering Government/Software Engineering Sys Engrg/Proj Mgmt (SEPM) Integrated Logistics Support Depot Maint Plant Equipment (DMPE) Fielding								36592 27419 20776 14191 1500 8300			37249 28076 21318 14308 1500 8300		
SUBTOTAL								108778			110751		
Note: Missile quantities may be reduced (FY04-FY09) as a result of inflation adjustments and negotiations with the contractor.													
Total								561555			490754		

Exhibit P-5a, Budget Procure Appropriation/Budget Activity/Serial No:	·	Weapon Syste	em Type:		P-1 Line It	tem Nomenc	lature:			
Missile Procurement, Army / 2 / Other missiles					PATRIOT PA	C3 (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 Issi Date
Missile Hardware										
FY 1999 LRIPB MDA	LMMFC Dallas, TX	SS/CPIF	AMCOM	Dec 99	Sep 01	20	5124	NA		Jun 9
FY 2000 LRIP1 MDA	LMMFC Dallas, TX	SS/CPIF	AMCOM	May 00	May 02	32	5141	NA		Nov 9
FY 2001 LRIP2 MDA	LMMFC Dallas, TX	SS/CPIF	AMCOM	Dec 00	Feb 03	40	4535	NA		Aug 0
FY 2002 LRIP3 MDA	LMMFC Dallas, TX	SS/FPIS	AMCOM	Mar 02	Apr 04	72	4411	NA		Oct 0
FY 2003 MDA	LMMFC Dallas, TX	SS/FPIS	AMCOM	Dec 02	Apr 04	88	3680	NA		Aug 0
FY 2004	LMMFC Dallas, TX	SS/FFP	AMCOM	Nov 03	Mar 05	108	3158	NA		
FY 2005	LMMFC Dallas, TX	SS/FFP	AMCOM	Dec 04	Mar 06	131	2417	NA		
FY 2006	LMMFC Dallas, TX	SS/FFP	AMCOM	Dec 05	Mar 07	144	2246	NA		
FY 2007	LMMFC Dallas, TX	SS/FFP	AMCOM	Dec 06	Mar 08	144	2233	NA		
FY 2008	LMMFC Dallas, TX	SS/FFP	AMCOM	Dec 07	Mar 09	184	2486	NA		
FY 2009	LMMFC Dallas, TX	SS/FFP	AMCOM	Dec 08	Mar 10	184	2517	NA		

REMARKS: The pending FY03 Congressional Prior Approval reprogramming action will provide \$104M for the acceleration of LRIP 2 and LRIP 3 deliveries and 12 additional missiles in the FY03 Block 02 production buy. Schedule will be changed to reflect the acceleration once funds are received and contract actions taken. After the reprogramming action is approved the FY03 Block 02 quantity will reflect 100 PAC-3 missiles.

Note: Missile quantities may be reduced (FY04-FY09) as a result of inflation adjustments and negotiations with the contractor.

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PA	C-3 MISSILE (LRIP-3) MDA	1	FY 02	A	72	72	0				$\vdash$	$\dashv$	$\dashv$										$\vdash$	+	+	$\vdash$						
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PA	C-3 Missile (FY05)																															
		1	FY 05	A	131	131	0						_																			0
PA	C-3 Missile (FY06)										Ш		_													L						
		1	FY 06	A	144	144	0						_												_	_						0
PA	C-3 Missile (FY07)											_	_							L			_	-	-	┡						
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1	LMMFC, Dallas, TX		6.00		20.00	30.00	0	1		REO	RDER				8			1			16			17		ac	celera	tion o	f LRI	P 2 an	d LR	
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Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	1	Date:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army	-					P-1 Item Non		ΓΕΜ SUMMAR	Y (C18500)			
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program El	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	2266		300	160								2726
Gross Cost	1143.3		28.8	25.4	2.9							1200.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1143.3		28.8	25.4	2.9							1200.5
Initial Spares	1.6											1.6
Total Proc Cost	1144.9		28.8	25.4	2.9							1202.1
Flyaway U/C												
Wpn Sys Proc U/C			0.1	0.2								

## **Description:**

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

#### Justification:

FY04 funds the final year of procurement for the Stinger Block I program. The Stinger Block I program has been terminated after FY03 in order to fund Transformation and other higher Army priorities.

Note: Due to a \$5.15 million FY02 rescission, the missile buy has been reduced by a quantity of 34 in FY02. The FY03 missile quantities have been reduced by 21 missiles due to \$5.0 million Congressional funding reduction.

Exl	hibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Ι	Date:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army	•					P-1 Item Non	nenclature NGER BLK	1 (C18600)				
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program El	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	2266		266	139								2671
Gross Cost	775.0		28.8	25.4	2.9							832.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	775.0		28.8	25.4	2.9							832.3
Initial Spares	0.8											0.8
Total Proc Cost	775.8		28.8	25.4	2.9							833.1
Flyaway U/C												·
Wpn Sys Proc U/C			0.1	0.2								

## **Description:**

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

#### Justification:

FY04 funds the final year of procurement for the Stinger Block I program. The Stinger Block I program has been terminated after FY03 in order to fund Transformation and other higher Army priorities.

Note: Due to a \$5.15 million FY02 rescission, the missile buy has been reduced by a quantity of 34 in FY02. The FY03 missile quantities have been reduced by 21 missiles due to \$5.0 million Congressional funding reduction.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procure		rity/Serial No. / 2 / Other missiles			tem Nomenclature BLK 1 (C18600)	e:		Weapon System	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MISSILE HARDWARE - RECURRING Missile Warhead & Fuze Dual Detectors Battery Coolant Unit Containers		23641 1500 411 45	266	88.876	14533 5005 24	139	104.554						
Total Hardware Cost		25597			19562								
Flyaway Cost SUPPORT COST		25597			19562								
Government Engineering Contractor Engineering ECP		1869 1031 350			3000 2880			1599 1343					
Subtotal Support Cost		3250			5880			2942					
Total		28847			25442			2942					

Exhibit P-5a, Budget Procurem	nent History and Planning							Date: F	ebruary 2	:003
appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syste	m Type:		P-1 Line It STINGER BLI		clature:			
VBS 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 Is Date
Missile										
FY 2002	Raytheon Systems Company Tucson, AZ	SS/FP(Opt)	AMCOM	May-02	Jan-04	266	88.876	yes		
FY 2003	Raytheon Systems Company Tucson, AZ	SS/FP(Opt)	AMCOM	Jan-03	Sept-04	139	104.554	yes		

Congressional funding reduction.

	FY 02 / 03 BUDGET PI	ROD	UCTION	SCH	IEDUL:	E				lomen BLK			)										]	Date:			Feb	ruary	2003			
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Exh	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet		Date:	I	February 2003		
Appropriation/Budget Act Missile Procurement, Army /2						P-1 Item Non AVI		STEM SUMMA	RY (C14900)			
Program Elements for Coo	de B Items:			Code:	Other Relat	ed Program El	ements:	C15200, C1	16000, CE8710	), CA0260		
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	5 FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	896	6										902
Gross Cost	1065.6	27.9	11.5									1105.0
Less PY Adv Proc	122.9											122.9
Plus CY Adv Proc	122.9											122.9
Net Proc (P-1)	1065.6	27.9	11.5									1105.0
Initial Spares	60.9	2.8										63.7
Total Proc Cost	1126.5	30.8	11.5									1168.7
Flyaway U/C												
Wpn Sys Proc U/C		4.7										

AVENGER System is a highly mobile, Stinger-based, Short Range Air Defense system capable of day, night, adverse weather and shoot on-the-move for precision engagement operations. It provides Division and Corps units with low altitude air defense/information dominance 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 (FLIR) sensor 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. 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:**

FY02 funding supports the Total Package Fielding of the Active Avenger fleet.

Ex	hibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army						P-1 Item Non AVI		MT STINGEF	R) (MYP) (C16	5000)		
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program El	ements:	C15200, C1	14900, CE8710	), CA0260		
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	896	6										902
Gross Cost	1022.6	27.9	11.5									1062.0
Less PY Adv Proc	122.9											122.9
Plus CY Adv Proc	122.9											122.9
Net Proc (P-1)	1022.6	27.9	11.5									1062.0
Initial Spares	60.9	2.8										63.7
Total Proc Cost	1083.5	30.8	11.5									1125.8
Flyaway U/C												
Wpn Sys Proc U/C		4.7										

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 for precision 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 (FLIR) sensor 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. 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:

FY02 funding supports the Total Package Fielding of the Active Avenger fleet.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procur		rity/Serial No. / 2 / Other missiles			tem Nomenclatur (PED MT STINGE	e: R) (MYP) (C16000)		Weapon System	Туре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Avenger (PED Mt STINGER) (MYP)  Hardware - Recurring Avenger Fire Unit  Subtotal Hardware Production  HMMWV STC/CFCC/AVT Govt Furnished Material (GFM) Driveaway Support Cost Government Engineering/SEPM Contractor Engineering Total Package Fielding Support Equipment Training Equipment  Subtotal Support Cost  Initial Spares		\$000 \$000 3198 2755 2856 1570 1107 <b>11486</b>	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Total		11486											

Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles  WBS Cost Elements:  Contractor and Location  Contract Method and Type  Avenger Fire Unit FY 2000 Boeing Huntsville, AL FY 2001 Boeing SS/FP AMCOM	Award Date	AVENGER (F		elature: ER) (MYP) (C16000)			
Avenger Fire Unit FY 2000 Boeing Huntsville, AL Boeing Huntsville, AL Boeing Huntsville, AL	Award Date		OTV				
FY 2000 Boeing SS/FP AMCOM Huntsville, AL		Delivery	Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Huntsville, AL	Dec 99 Nov 00	Sep 01 Aug 02	15 6	1091 1136	yes		
REMARKS:							

	FY 02 / 03 BUDGET PRO	ODI	UCTION	SCH	EDUL	E				Iomen R (PE)			IGER	R) (MY	P) (C	C1600	0)						]	Date:			Feb	ruary	2003			
												Fise	cal Y	ear 02	ļ									F	iscal	Year	03					
				S	PROC	ACCEP	BAL			_				,	Calei	ndar	Year								_	_	_	Year (	03			L A
	COST ELEMENTS  R	F	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
Av	venger Fire Unit	_						_		$\dashv$			$\dashv$		_	+	_									$\vdash$						
	1	1 ]	FY 99	A	15	15	0						$\neg$			_																0
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M			PRO	DDUCTI	ON RATES			M	FR				$\neg$		ADMI	INLEA	D TI	IME			MFR			ТОТА	.L	R	EMAF	RKS				
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1	Boeing, Huntsville, AL		5.00		12.00	24.00	15	1	l	REO	RDER				0			1			21			22		]						
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Ex	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	F	February 2003		
Appropriation/Budget Ad Missile Procurement, Army	•					P-1 Item Nom Surf		AMRAAM Sy	stem Summar	y: (C81001)		
Program Elements for Co	ode B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost					7.5	22.0	47.1	24.4	13.7	4.9		119.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					7.5	22.0	47.1	24.4	13.7	4.9		119.5
Initial Spares												
Total Proc Cost					7.5	22.0	47.1	24.4	13.7	4.9		119.5
Flyaway U/C												
Wpn Sys Proc U/C												

Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is the initial kinetic energy component of the Enhanced Area Air Defense System (EAADS), an Air and Missile Defense (AMD) Objective Force System. SLAMRAAM is a System of Systems, consisting of a launcher platform, AIM-120 Advanced Medium Range Air-to-Air Missiles (AMRAAMs), a common Army vehicle, launch rails, launcher electronics, on-board command, control, communications, and computer (C4) components, Sentinel (ETRAC) Sensor, other external Sensors, and BMC4I. SLAMRAAM is a lightweight, day or night, adverse weather, non-line-of-sight (NLOS) system for countering low altitude rotary wing (RW), fixed wing (FW), cruise missile (CM), unmanned aerial vehicle (UAV), and reconnaissance, surveillance, and target acquisition (RSTA) platforms. It supports clutter engagements in close combat areas where maneuvering forces and their supporting units operate. SLAMRAAM's force protection mission is to engage the low-altitude aerial threats out to 18km protecting maneuvering and stationary units, as will as protecting critical assets. This system supports the Objective transformation path of the Transformation Campaign Plan (TCP).

#### Justification:

FY04 will initiate production efforts to support the procurement in FY05 of 5 SLAMRAAM Systems, 39 missiles and modification of 4 Test Articles for operational use. These 9 SLAMRAAM Systems will provide an early capability needed to support the Army's Air and Missile Defense Strategy against emerging threats.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	F	Sebruary 2003		
Appropriation/Budget Act Missile Procurement, Army /2						P-1 Item Nom Surf		AMRAAM La	uncher (C810	02)		
Program Elements for Coo	de B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty						5	8	9	4			26
Gross Cost					1.0	13.7	24.4	24.4	13.7	4.9		82.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					1.0	13.7	24.4	24.4	13.7	4.9		82.0
Initial Spares												
Total Proc Cost					1.0	13.7	24.4	24.4	13.7	4.9		82.0
Flyaway U/C												
Wpn Sys Proc U/C						2.7	3.1	2.7	3.4			

Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is the initial kinetic energy component of the Enhanced Area Air Defense System (EAADS), the Air and Missile Defense (AMD) Objective Force system. The SLAMRAAM is a System of Systems, consisting of a launcher platform, AIM-120 Advanced Medium Range Air-to-Air Missiles (AMRAAMs), a common Army vehicle, launch rails, launcher electronics, on-board command, control, communications, and computer (C4) components, Sentinel (ETRAC) Sensor, other external Sensors, and BMC4I. SLAMRAAM is a lightweight, day or night, adverse weather, non-line-of-sight (NLOS) fire unit for countering low altitude rotary wing (RW), fixed wing (FW), cruise missile (CM), unmanned aerial vehicle (UAV), and reconnaissance, surveillance, and target acquisition (RSTA) platforms. It supports clutter engagements in close combat areas where maneuvering forces and their supporting units operate. SLAMRAAM's force protection mission is to engage the low-altitude aerial threats out to 18km. This system supports the Objective transformation path of the Transformation Campaign Plan (TCP).

#### Justification:

FY04 will initiate production efforts to support the procurement in FY05 of 5 SLAMRAAM Systems, 39 missiles and modification of 4 Test Articles for operational use. These 9 SLAMRAAM Systems will provide an early capability needed to support the Army's Air and Missile Defense Strategy against emerging threats.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/l Missile Procu		vity/Serial No. / 2 / Other missiles			tem Nomenclatur unched AMRAAM I			Weapon System	Гуре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Non-Recurring Production Fire Unit Modification											1352	4	338
Total Non Recurring Production											1352		
Recurring Production Hardware Launcher Manufacturing Recurring Engineering Sustaining Tooling Quality Control Engineering Change Proposals  Total Hardware Cost											4226 1251 334 609 428	5	845
Weapons Support Cost System Test and Evaluation System Engineering/Program Management Training Equipment Data								655 116			194 3458 616 319		
Support Equipment Fielding								210			194 718		
Sub-Total Support Cost								981			5499		
Initial Spares													
Total								981			13699		

Exhibit P-5a, Budget Procurement Histo	ory and Planning							Date: F	ebruary 20	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syster	n Type:		P-1 Line Ito Surface-Launch		lature: .auncher (C81002)			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
	To Be Selected N/A	TBS	AMCOM	Feb-05	Jun-06	5	845			
REMARKS:										

	FY 04 / 05 BUDGET PR	OD	UCTION	SCH	IEDUL	E				lomer unche			M La	aunche	er (C8	31002	)						]	Date:			Feb	ruary	2003			
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	COST ELEMENTS	M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R			J U N	J U L		S E P	O C T	N O V	D E C	J A N	F E B		_	M A Y		J U L	A U G	S E P	A T E R
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La	auncher Manufacturing															$\Box$																
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M			PR	ODUCTI	ON RATES			M	FR						ADM	IINLE.	AD T	IME			MFR			ТОТА	L	R	EMAF	KS				
F							REACHED	Nur	nber					Prio	or 1 O	ct	Af	ter 1 O	ct	Ai	iter 1 C	Oct	A	fter 1	Oct	1						
R			MIN.		1-8-5	MAX.	D+		1	INIT					0			6			16			22		1						
1	To Be Selected, N/A		5.00		12.00	24.00	0			INIT	RDER				0			0			0			0		1						
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	FY 06 / 07 BUDGET PR	OD	UCTION	SCH	IEDUL	E				Nomer nunch			M L	aunch	er (C8	31002	)						]	Date:			Feb	ruary	2003			
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		M	FY	S E	PROC QTY	ACCEP PRIOR	BAL DUE		N	Б		Б	24	۸		endar			C	0	NT.	Б		Б		_		Year (			c	L A T
	COST ELEMENTS	F R	1.1	R V	Units	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	E R
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M			PRO	ODUCTI	ON RATES			M	FR						ADM	IINLE.	AD T	IME			MFR			ТОТА	L	R	EMAR	RKS				
F							REACHED	Nur	nber					Pri	or 1 O	ct	Af	ter 1 O	ct	Af	iter 1 C	Oct	A	fter 1 (	Oct	1						
R			MIN.	1	1-8-5	MAX.	D+	1	1	INIT					0			6			16			22		1						
1	To Be Selected, N/A		5.00		12.00	24.00	0			REO	RDER				0			0			0			0		1						
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Exhi	bit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	F	February 2003		
Appropriation/Budget Activ Missile Procurement, Army /2/0	•					P-1 Item Nom Surf		I AMRAAM M	issile (C81004	.)		
Program Elements for Code	B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty					17	22	64					103
Gross Cost					6.5	8.3	22.7					37.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					6.5	8.3	22.7					37.5
Initial Spares												
Total Proc Cost					6.5	8.3	22.7					37.5
Flyaway U/C												
Wpn Sys Proc U/C		·			0.4	0.4	0.4					

The SLAMRAAM takes off-the-shelf USAF Advanced Medium Range Air-to-Air Missiles AIM -120 (AMRAAM) and mounts the missiles on a common Army vehicle to enable surface-to-air engagements. The AIM -120 is a mature all-weather, radar-guided tri-service (Air Force, Marines, and Navy) missile, and has a well-established production program, integrated logistics support structure, and P3I program. The AIM -120 is a supersonic, air-launched guided missile employing active target tracking, proportional navigation guidance, and active radio frequency (RF) target detection. It employs inertial navigational methods of guidance to provide an autonomous launch and leave capability against simultaneous multiple targets in all environments. This system supports the Objective transformation path of the Transformation Campaign Plan (TCP).

#### **Justification:**

FY04/05 procures 39 missiles for the 5 SLAMRAAM Systems.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/I Missile Procu		vity/Serial No. / 2 / Other missiles			tem Nomenclatur unched AMRAAM N			Weapon System 7	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Missile Hardware Recurring Missile Round Warranty Containers		\$000	Units	\$000	\$000	Units	\$000	\$000 6285 49 72	Units 17	\$000	\$000 8012 94 141	Units 22	\$000 364
Total Missile Hardware Cost								6406			8247		
Production Support System Engineering/Program Management								65			70		
Total Production Costs								65			70		
Total								6471			8317		

Exhibit P-5a, Budget Procure	ement History and Planning							Date: F	ebruary 2	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syste	т Туре:		P-1 Line It Surface-Launch		lature: Missile (C81004			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Missile Round FY 2004 FY 2005	Raytheon Tucson, AZ Raytheon Tucson, AZ	TBD	AMCOM	Jan-04 Jan-05	Sep-05 Sep-06	17 22	370 364	Yes		
REMARKS: The Army's acquisition strategy	is to buy into an existing Air Force contract with the	ne Raytheon Corporat	ion.							

Missi	COST ELEMENTS					E		Surfa	ice-La	unche	ed AM	IRAAI	M Mi	issile (	28100	14)										геы	uary 2	2003			
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Total					39		39																							17	22
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M			PR	ODUCTI	ON RATES			Ml	₹R					I	ADMIN	NLEAD	TIME			MFR		7	ΓΟΤΑΙ	L	RE	EMAR	KS				
F							REACHED	Nun	nber				4	Prior	1 Oct		After 1	Oct	A	fter 1 C	Oct	At	fter 1 C	Oct							
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	1		INITI			4		0		4		_	20			24								
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	FY 06 / 07 BUDGET PR	OD	UCTION	SCH	IEDUL!	E				Nomen unche			М М	lissile (	C810	004)							]	Date:			Feb	ruary	2003			
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	COST ELEMENTS	M F R	FΥ	R V	QTY Units	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
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M			PRO	ODUCTI	ON RATES			M	FR						ADM	INLEA	AD T	IME			MFR			ТОТА	.L	R	EMAR	KS				
F							REACHED	Nui	nber					Prio	r 1 Oc	et	Af	ter 1 O	ct	A	fter 1 (	Oct	A	fter 1 (	Oct	1						
R	NAME/LOCATION		MIN.	1	1-8-5	MAX.	D+		1	INIT					0			4			20			24		1						
1	Raytheon, Tucson, AZ		450.00		960.00	1200.00	0		•		RDER				0			0			0			0		4						
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Ext	aibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army	•					P-1 Item Nom HEI		SUMMARY (C	C70000)			
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	3403.1	294.4	249.9	190.7	33.1	28.5	26.9	11.2				4237.7
Less PY Adv Proc	11.6	11.6	11.6	9.5								44.3
Plus CY Adv Proc	44.3											44.3
Net Proc (P-1)	3435.8	282.8	238.3	181.2	33.1	28.5	26.9	11.2				4237.7
Initial Spares	7.5											7.5
Total Proc Cost	3443.3	282.8	238.3	181.2	33.1	28.5	26.9	11.2				4245.2
Flyaway U/C												
Wpn Sys Proc U/C												

The HELLFIRE family of Objective-Force, air-to-ground missiles provides precision-kill capability to the Apache (Legacy Force), Comanche (Objective Force), Blackhawk and Kiowa Warrior helicopters against heavy, advanced armor and individual hard point targets. Laser HELLFIRE (A, C, F, and K models) uses semi-active laser (SAL) terminal guidance. The K model (or HELLFIRE II) provides for point-target precision strike, defeats future advanced armor threat, is effective against countermeasures, and is shipboard compatible. Longbow HELLFIRE (L model) is a millimeter wave, radar-aided inertial guidance missile that provides a fire-and-forget capability to engage targets both day and night, in adverse weather, and with battlefield obscurants present. This capability will substantially increase the survivability of the AH-64D Longbow Apache helicopter. HELLFIRE II and Longbow HELLFIRE comprise the primary anti-tank armament of the AH-64 Apache, OH-58D Kiowa Warrior, and Special Operations helicopters and may be used by the RAH-66 Comanche – the Army's next-generation helicopter. Production buys are scheduled to support training, testing, fielding and deployment of these aircraft. The FY 04-07 funding will provide Counter Active-Protection System (CAPS) and Home-on-Jam/Anti-Jam capability for the Longbow HELLFIRE. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

#### Justification:

FY04/FY05 funding supports Longbow HELLFIRE deliveries, procures Counter Active Protection Systems (CAPS) and Home on Jam/Anti Jam capability for the Longbow Hellfire, and also supports the ongoing training, fielding and deployment of the complete AH 64-D Longbow Apache system.

In addition to the funding shown above, this budget line item received:

Non-add FY 2002 Defense Emergency Response Fund (DERF) Supplemental funding (\$5.0 million) for Laser Hellfire missile retrofit.

Exhi	bit P-40	, Budge	t Item J	ustificat	tion She	eet		Date:	I	February 2003		
Appropriation/Budget Activ Missile Procurement, Army /2/O	-					P-1 Item Nom LAS		FIRE MSL (BASI	C/IHW/HFII)	(C70100)		
Program Elements for Code	B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	6 FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	49140											49140
Gross Cost	2064.1		6.9									2070.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2064.1		6.9									2070.9
Initial Spares	5.7											5.7
Total Proc Cost	2069.8		6.9									2076.6
Flyaway U/C												
Wpn Sys Proc U/C												_

The Laser HELLFIRE family consists of the A, C, F, and K model missiles. They are Objective Force missiles that provide air-to-ground precision strike and are designed to defeat individual hard point targets. The missiles have the capability for modular guidance section replacement. Laser HELLFIRE uses semi-active laser terminal guidance and is the primary anti-tank armament of the AH-64 Apache, OH-58 Kiowa Warrior, and special operation helicopters. Laser HELLFIRE may be used by the RAH-66 Comanche, the Army's next-generation helicopter. In FY90, the F model missile (Interim HELLFIRE Warhead) was introduced with an improved warhead that improved lethality against near-term threat reactive armor. The K model (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:

The program is not funded in FY04.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procur		vity/Serial No. / 2 / Other missiles			tem Nomenclatur ELLFIRE MSL (BAS	re: SIC/IHW/HFII) (C70	100)	Weapon System	Гуре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Flyaway Costs Hardware Costs - Recurring All-up Rounds Gov Furn Eq (GFE) Explosives Engineering Services Engineering Change Orders Fielding Acceptance Testing		6508											
SUBTOTAL		6508											
Engineering Support Project Mgt Admin Production Engineering Support		345											
SUBTOTAL		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		6853											
Less: Prior Year Adv Proc  Net P-1 Full Funding Cost  Plus: P-1 Cy Adv Proc  Other Non P-1 Costs  Inital Spares  Mods		6853											
Total		6853											

Exl	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army						P-1 Item Nom LON		LLFIRE/LBHF-	- (C70300)			
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	6708	2200	2200	1797								12905
Gross Cost	1309.9	294.4	243.1	190.7	33.1	28.5	26.9	11.2				2137.6
Less PY Adv Proc	11.6	11.6	11.6	9.5								44.3
Plus CY Adv Proc	44.3											44.3
Net Proc (P-1)	1342.5	282.8	231.5	181.2	33.1	28.5	26.9	11.2				2137.6
Initial Spares												
Total Proc Cost	1342.5	282.8	231.5	181.2	33.1	28.5	26.9	11.2				2137.6
Flyaway U/C												
Wpn Sys Proc U/C		0.1	0.1	0.1								

Longbow HELLFIRE is an Objective Force missile system that provides fire-and-forget capability to the Apache (Legacy Force) and Comanche (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 Comanche (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 (LOBL) or lock-on after launch (LOAL) capability, depending on target range and movement parameters. The Longbow HELLFIRE will not change the AH-64 mission or role, but will provide for increased aircraft survivability. 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:**

FY04/FY05 funding supports Longbow HELLFIRE deliveries, procures Counter Active Protection Systems (CAPS) and Home on Jam/Anti Jam capability for the Longbow Hellfire, and also supports the ongoing training, fielding and deployment of the complete AH 64-D Longbow Apached System.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procur		ity/Serial No. /2/Other missiles			tem Nomenclature V HELLFIRE/LBHF			Weapon System	Гуре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Flyaway Costs Hardware Costs - Recurring All-Up-Rounds Gy Furn Eq (GFE) Explosives		220128 687	2200	101	168679 573	1797	94	7010			7240		
CAPS Kits Engineering Services Engineering Change Orders-Motor Retrofit		1295 10194			1825			7919 1825			7349 1489		
Engineering Change Orders-HOJ/AJ Fielding Acceptance Testing		740 2653			2345 2335 4762			5631 2454 3919			4901 2611 4001		
SUBTOTAL		235697			180519			21748			20351		
Engineering Support Project Mgt Admin Production Engineering Support		3756 3632			3829 3942			3945 4062			4028 4147		
SUBTOTAL		7388			7771			8007			8175		
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					2372			3306					
SUBTOTAL					2372			3306					
Gross P-1 End Item Less: Prior Year Adv Proc		<b>243085</b> 11599			<b>190662</b> 9479			33061			28526		
Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc Other Non P-1 Costs Initial Spares Mods		231486			181183			33061			28526		
Total		231486			181183			33061			28526		

Exhibit P-5a, Budget Procu	rement Histor	y and Planning							Date: F	ebruary 2	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles			Weapon Syster	n Type:		P-1 Line It	em Nomencl				
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
All-Up-Rounds FY 2002 FY 2003  REMARKS: * Performance-based specific	Oi Lc Oi	rlando, Fl ongbow Limited Liability Co rlando, Fl		AMCOM	Dec-01 Dec-02	Nov-03 Sep-04	2200 1797	101 94	Yes		*
r errormance-based specific	ections are used in all p	A SCHOOL COMMENT.									

	FY 02 / 03 BUDGET PI	ROD	UCTION	SCH	IEDUL]	E		P-1 Item Nomenclature: LONGBOW HELLFIRE/LBHF+ (C70300) Fiscal Year 02															Ι	Date:			Febi	ruary 2	2003			
												Fis	cal Y	Year 0	2									Fi		Year						
				S E	PROC	ACCEP	BAL	_							Cal	endar												ear 0	3			L A
	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
All	-Up-Rounds																															
		1	FY 00	A	2200	0	2200						120	200	200	200	200	200	225	225	225	225	180									0
		1	FY 01	A	2200	0	2200																45	225	225	225	225	225	225	225	225	355
		1	FY 02	A	2200	0	2200			A																						2200
		1	FY 03	A	1797	0	1797															A										1797
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To	al				8397		8397						120	200	200	200	200	200	225	225	225	225	225	225	225	225	225	225	225	225	225	4352
								O C T	N O V	D E C	J A N	F E B	M A R	P	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M			PR	ODUCTI	ON RATES			M	FR						ADN	/INLE	AD T	IME			MFR		7	ГОТАІ	L		EMAR					
F							REACHED	Nui	nber					Pric	or 1 O	ct	Af	ter 1 O	ct	Aft	er 1 C	Oct	Af	fter 1 O	Oct					1YP, 1		lead
R	NAME/LOCATION		MIN.	1	1-8-5	MAX.	D+			INITI	IAL				0			0			0			0		tim	e con	tinuo	usly ii	nprov	es.	
1	Longbow Limited Liability Co, Orlando, Fl		100.00		.00	235.00	18		1	REO	RDER				0			2			25			27								
										INITI	IAL																					
										REO	RDER																					
										INITI																						
								_		REO																						
										INITI																						
										REO																						
										INITI																						
										REO	RDER																					

	FY 04 / 05 BUDGET PI	ROD	UCTION	SCH	(EDUL	E				Nomer W HE			BHF-	+ ( <b>C</b> 70	300)								I	Oate:			Feb	ruary	2003			
												Fis	scal Y	ear 0	4									F	iscal `	Year	05					
				S	PROC	ACCEP	BAL									endar		r 04										ear 0	5			L A
	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
Δ	ll-Up-Rounds														$\dashv$	$\dashv$																
Α	r-op-rounds	1	FY 00	A	2200	2200	0								$\dashv$	$\dashv$																0
			FY 01	A	2200	1845	355	225	130																							0
		1	FY 02	A	2200	0	2200				230	230	235	235	235	235	235	235														0
		1	FY 03	A	1797	0	1797												149	149	149	150	150	150	150	150	150	150	150	150		0
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To	otal				8397	4045	4352	225	230	230	230	230	235	235	235	235	235	235	149	149	149	150	150	150	150	150	150	150	150	150		
								O C T	N O V	D E C	J A N	F E B	M A R	P		J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M			PR	ODUCTI	ON RATES			Ml	FR.						ADM	IINLE	AD T	IME			MFR		7	ГОТА	L		EMAR					
F							REACHED	Nun	nber					Pric	or 1 Oc	ct	Af	ter 1 C	ct	Af	ter 1 C	Oct	At	fter 1 (	Oct					AYP, N		lead
R	NAME/LOCATION		MIN.	1	1-8-5	MAX.	D+	,		INIT					0			0			0			0		tin	ne con	tinuo	usly i	mprov	es.	
1	Longbow Limited Liability Co, Orlando, Fl		100.00		.00	235.00	18				RDER				0			2			25			27								
_								-		INIT						_																
										INIT	RDER					-																
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										INIT	IAL																					
										REO	RDER																					

Ext	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ite:	F	ebruary 2003		
Appropriation/Budget Ac Missile Procurement, Army	-					P-1 Item Nom APK		ed Precision Ki	ll Weapon Sys	tem) (C70301	)	
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty							1020	2075	6075	8475	71775	89420
Gross Cost						14.4	56.6	65.3	125.9	160.5	1435.9	1858.6
Less PY Adv Proc							6.1					6.1
Plus CY Adv Proc						6.1						6.1
Net Proc (P-1)						20.6	50.5	65.3	125.9	160.5	1435.9	1858.6
Initial Spares												
Total Proc Cost						20.6	50.5	65.3	125.9	160.5	1435.9	1858.6
Flyaway U/C												
Wpn Sys Proc U/C							0.0	0.0	0.0	0.0	0.0	

The Advanced Precision Kill Weapon System (APKWS) is a highly accurate weapon that will complement the HELLFIRE missile in precision strikes against soft point targets and provide improved accuracy over the current 2.75-inch munition used in the AH-64 Apache, OH-58 Kiowa Warrior, and the future RAH-66 Comanche helicopters. Under the APKWS program, a laser guidance section for the 2.75 inch munition will be developed, tested, qualified and procured as a total system. The APKWS is expected to provide at least ten times the number of kills, thereby substantially reducing collateral damage, and significantly reducing cost because fewer rockets are required. The APKWS supports the Legacy to Objective Force transition path of the Transformation Campaign Plan (TCP).

#### **Justification:**

FY05 funds will procure initial production facilitization and advance procurement for long lead items.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/I Missile Procu		vity/Serial No. /2/Other missiles			item Nomenclatur Advanced Precision F 70301)			Weapon System	Гуре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Flyaway Costs Hardware Costs - Recurring All-up Rounds Gov Furn Eq (GFE) Engineering Services Engineering Change Orders Fielding Acceptance Testing													
SUBTOTAL													
<b>Engineering Support</b> Project Mgt Admin Production Engineering Support													
SUBTOTAL													
Non-Recurring Disposal of Tool/Test Equipment Initial Production Facilitization Rate Tooling/Test Equipment											14442		
SUBTOTAL											14442		
Peculiar Support Equipment Environmental Protections													
SUBTOTAL													
Gross P-1 End Item Less: Prior Year Adv Proc											14442		
Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc Other Non P-1 Costs Initial Spares Mods											<b>14442</b> 6124		
Total											20566		

Exhi	bit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	February 2003		
Appropriation/Budget Activ Missile Procurement, Army /2/0	•					P-1 Item Nom APK		ced Precision Ki	February 2003  Cill Weapon System)(Adv Proc) (C7030  FY 2008 FY 2009 To Comp  0.0 0.0		c) (C70301)	
Program Elements for Code	B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0		6.1
Net Proc (P-1)						6.1						6.1
Initial Spares												
Total Proc Cost						6.1					6.1	
Flyaway U/C					·							·
Wpn Sys Proc U/C												_

The Advanced Precision Kill Weapon System (APKWS) is a highly accurate weapon that will complement the HELLFIRE missile in precision strikes against soft point targets and provide improved accuracy over the current 2.75-inch munition used in the AH-64 Apache, OH-58 Kiowa Warrior, and the future RAH-66 Comanche helicopters. Under the APKWS program, a laser guidance section for the 2.75 inch munition will be developed, tested, qualified and procured as a total system. The APKWS is expected to provide at least ten times the number of kills, thereby substantially reducing collateral damage, and significantly reducing cost because fewer rockets are required. The APKWS supports the Legacy to Objective Force transition path of the Transformation Campaign Plan (TCP).

#### Justification:

FY05 funds are required for advance procurement of Long Lead Items to support APKWS production in FY06.

Advance Procurement Requirem	ents A	analys	is -Fundi	ng (P10A	)		Award Date: 0 MAY 05			Completion Da 0 OCT 05	nte:	Date: F	ebruary 2003	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /2/Other missiles									ture / Weapon l Precision Kill		m)			
							(\$	in Millions)						
	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	To Comp	Total
All-up Rounds: Printed circuit boards Resistors/capacitors/diodes Microcircuits Optics Detectors M151 HE warhead M243 fuze Mark 66 Mod 4 rocket motors Marerials and components	14	18						6.1						6.1
Total Advance Procurement			0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	6.1

Advance Procurement Requireme	ents Ai	nalysis -Fu	nding (P10)	<b>B</b> )				Date: Fe	bruary 2003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /2/Other missiles						em Nomenclature / Weapo WS (Advanced Precision Ki			
					(\$	in Millions)			
		Quantity			2004			20	05
	PLT	Per	Unit		Contract	Total		Contract	Total
	(mos)	Assembly	Cost	Qty	Forcast Date	Cost Request	Qty	Forcast Date	Cost Request
End Item Quantity:									
All-up Rounds:	14		6.124				1	FY05	6.124
Printed circuit boards									
Resistors/capacitors/diodes									
Microcircuits									
Optics									
Detectors									
M151 HE warhead M243 fuze									
Mark 66 Mod 4 rocket motors									
Marerials and components									
ware the component.									
<b>Total Advance Procurement</b>						0.000			6.124

The Long Lead Item request is for those materials/components that require more than a 12 month lead time for all-up round manufacture. No major end item is procured in advance of the all-up round. These items are required for the manufacture of the FY 06 all-up rounds.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2003		
Appropriation/Budget Acti Missile Procurement, Army /2	-					P-1 Item Nom JAV		S-M) SYSTEM	SUMMARY	(CC0007)		
Program Elements for Cod	le B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	10460	2776	4139	1478	901	1062						20816
Gross Cost	1612.4	337.0	425.8	228.1	133.1	123.3	16.7	19.6	11.6			2907.5
Less PY Adv Proc	53.0	13.9	17.2	9.0	0.0	7.6						100.6
Plus CY Adv Proc	93.0				7.6							100.6
Net Proc (P-1)	1652.4	323.1	408.7	219.2	140.7	115.7	16.7	19.6	11.6			2907.5
Initial Spares	7.5	4.9	2.3	2.8	3.1	3.0	0.8					24.5
Total Proc Cost	1659.9	328.0	411.0	222.0	143.8	118.7	17.5	19.6	11.6			2932.1
Flyaway U/C												
Wpn Sys Proc U/C		0.1	0.1	0.1	0.2	0.1						·

Javelin, a fire-and-forget system, is critical to the operational design of the Army's Objective Force because of its precision strike, manportability, high reliability, and capability to engage multiple types of targets (tanks, APCs, bunkers, helicopter, walls, etc). This project provides procurement funds for Javelin, the medium antitank system for infantry, scouts, combat engineers interim and objective forces. These forces must have the capability to defeat numerically superior armored forces. The above characteristics are key elements of the Army's transformation to a more versatile, deployable, lethal, survivable, and sustainable force. The Javelin, a replacement for the DRAGON, 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 uses a modular design 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, and handling exercises. The Javelin system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

#### **Justification:**

FY04 funds the first year of a two year multiyear contract to continue the production of Javelin missiles and CLUs. 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. This system has a secondary mission of destroying bunkers and provides defensive capability against attacking/hovering helicopters. The CLU also has been used in a stand-alone mode for battlefield surveillance and target selection in recent conflicts.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procure		ity/Serial No. / 2 / Other missiles			tem Nomenclature (AAWS-M) SYSTEM		007)	Weapon System 1	Гуре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Missile Hardware - Recurring All Up Round		283625	4139	69	101280	1478	69	68100	901	76	81700	1062	77
Engineering Services		5622	4139	0,9	5568	1476	09	4801	901	70	4537	1002	, ,
Engineering Change Orders		243			204			4801 98			93		
Acceptance Testing		5551			5621			5002			4815		
Fielding		2898			3548			2927			2387		
Subtotal Missile Hardware		297939			116221			80928			93532		
Procurement Support													
Government Project Management		8415			8027			7728			7802		
Government Production Engineering		4752			4551			4181			4064		
Publications/Technical Data		563			622			617			602		
r uoneations/ reclinicai Data		303			022			017			002		
Subtotal Procurement Support		13730			13200			12526			12468		
Command & Launch Hardware													
Command Launch Unit		87311	840	104	73487	707	104	13200	120	110	11648	104	112
Engineering Services		2134			1622			1571			1928		
Engineering Change Orders		77			75			17			11		
Fielding		3615			4217			3926			3677		
SubTotal C&L Hardware		93137			79401			18714			17264		
Training Devices													
Field Tactical Trainer-Student Station		15440	236	65	14262	218	65	16500	256	64			
Field Tactical Trainer-Instrtr Station													
Basic Skills Trainer		4466	70	64	3956	62	64	4099	59	69			
Missile Simulation Round		1135	454	3	1077	461	2	348	196				
SubTotal Training Devices		21041			19295			20947					
Gross P-1 End Cost		425847			228117			133115			123264		
Less: Prior Year Adv Proc		425847 -17171			-8950			133115			-7600		
Loss. That I can Adv 1100		-1/1/1			-0930						- 7000		
Net P-1Full Funding Cost		408676			219167			133115			115664		
PLUS P-1 CY Adv. Proc.		.00070			21,10,			7600			110001		
Other Non P -1 Costs								, 230					
Initial Spares		2328			2845			3117			3027		
Total		411004			222012			143832			118691		
20001		111004						1.0332			110071		

							F	ebruary 2	003
	Weapon Syste	п Туре:					0007		
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 Iss Date
JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-3	AMCOM	Dec 01	Feb 04	4139	69	Yes		
JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-4	AMCOM	Dec 02	Dec04	1478	69	Yes		
JV/All Up Round - Multiyear 3 Tucson,AZ/Orlando,FL	SS/FP/M2-1	AMCOM	Dec 03	Nov 05	901	76	Yes		
JV/All Up Round - Multiyear 3 Tucson,AZ/Orlando,FL	SS/FP/M2-2	AMCOM	Dec 04	Oct 06	1062	77	Yes		
JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-3	AMCOM	Dec 01	Oct 03	840	104	Yes		
JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL	SS/FP/M4-4	AMCOM	Dec 02	Oct 04	707	104	Yes		
JV/CLU - Multiyear 3 Tucson,AZ/Orlando,FL	SS/FP/M2-1	AMCOM	Dec 03	Oct 05	120	110	Yes		
JV/CLU - Multiyear 3 Tucson,AZ/Orlando,FL	SS/FP/M2-2	AMCOM	Dec 04	Oct 06	104	112	Yes		
	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3	Contract Method and Type  JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 SS/FP/M4-3 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-1 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-2	JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 SS/FP/M4-3 AMCOM Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-1 AMCOM Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-1 AMCOM SS/FP/M2-1 AMCOM SS/FP/M2-2 AMCOM	Contract Method and Type  JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 SS/FP/M2-1 AMCOM Dec 03 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 SS/FP/M2-2 AMCOM Dec 04  JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 SS/FP/M4-4 AMCOM Dec 01 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-1 AMCOM Dec 02 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-1 AMCOM Dec 03 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-2 AMCOM Dec 04	Contractor and Location  Contract Method and Type  JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 3 SS/FP/M2-1 AMCOM Dec 03 Nov 05 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 Tucson, AZ/Orlando, FL JV/All Up Round Multiyear 2 SS/FP/M4-3 AMCOM Dec 01 Oct 03 Tucson, AZ/Orlando, FL JV/CLU - Multiyear 3 SS/FP/M2-1 AMCOM Dec 03 Oct 05	Contract   Contract   Location of PCO   Award Date   Date of First   QTY   Delivery   Each	Contract of and Location   Contract Method and Type   Location of PCO   Award Date   Date of First   QTY   Unit Cost   Method and Type   Each   S	Contract	Contractor and Location   Contract Method and Type   Location of PCO   Award Date   Date of First   QTY   Unit Cost   Avail   Revsn   Now?   Avail   Revsn   N

FY04-FY05 is a multiyear contract.

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		1	FY 99	MC	741	741	0									$\dashv$										†	$\neg$						0
		1	FY 00	A	2392	2392	0																			Ť							0
		2	FY 00	MC	1011	1011	0									$\neg$							Г			Ť	$\neg$						0
		2	FY 01	A	2776	874	1902	419	495	494	494															Ť							0
		2	FY 01	MC	305	229	76	76		12.1	.,												Г			Ť							0
		2	FY 02	A	4139	0	4139					414	414	414	414	414	414	414	414	414	413		Г			Ť							0
		2	FY 02	FMS	231	0	231							116									Г			Ť		115					0
		2	FY 03	A	1478	0	1478															136	136	5 13	4 13	4	134	134	134	134	134	134	134
		2	FY 03	FMS	364	0	364																364			T							0
		4	FY 04	A	901	0	901																			Т							901
		4	FY 05	A	1062	0	1062																			Т							1062
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		4	FY 07	A	0	0	0																			Ι							0
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M			PRO	ODUCTI	ION RATES			M	FR						ADM	IINLE	AD T	IME			MFR			TOT	AL	Т	REN	1ARF	ΚS				
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	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL		110.00		440.00	560.00	0	:	2	INIT					11	_		3			22			25		4							
	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL		10.00		70.00	80.00	0				RDER				1	_		1			22			23		4							
4	JV/All Up Round - Multiyear 3, Tucson,AZ/Orlando,FL		110.00		440.00	560.00	0	1	3	INIT					11	$\dashv$		3		$\vdash$	22 22		$\vdash$	25 23		4							
5	JV/CLU - Multiyear 3, Tucson,AZ/Orlando,FL		10.00		70.00	80.00	0				RDER				1 11			3			22			23 25		4							
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	FY 04 / 05 BUDGET PR	OD	UCTION	SCH	IEDUL	E			Item N ELIN				TEM	I SUM	MAR	Y (C	C000	<b>)</b> 7)					I	Date:			Feb	ruary	2003			
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Co	mmand Launch Unit																															
		3	FY 99	MC	153	153	0																									0
		3	FY 00	A	610	610	0																									0
		3	FY 00	MC	77	77	0																									0
		3	FY 01	A	808	808	0																									0
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M			PR	ODUCTI	ON RATES			M								INLE					MFR			ТОТА		R	EMAR	KS				
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5	JV/CLU - Multiyear 3, Tucson,AZ/Orlando,FL  JV/CLU - Multiyear 3, Tucson,AZ/Orlando,FL		10.00		70.00	80.00	0	3	3	REO		_			11	$\dashv$		1		_	22		_	23		1						
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	FY 06 / 07 BUDGET PR	OD	UCTION	SCH	IEDUL	E				Nomen (AAV			TEM	I SUMI	MAR	Y (CC	0007	')					D	ate:			Feb	ruary	2003			
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			FY 98	A	894	894	0									十	$\top$		+	$\top$	$\top$	$\top$							T			0
		1	FY 98	MC	380	380	0									十	$\top$		+		$\top$	$\top$							T			0
			FY 99	A	3569	3569	0								$\top$	$\top$	$\top$		Ť	$\top$		十							Т			0
		1	FY 99	MC	741	741	0								$\dashv$		$\top$		T		$\top$	十	$\neg$						T			0
		1	FY 00	A	2392	2392	0										$\top$		T			$\top$							Т			0
		2	FY 00	MC	1011	1011	0												T			$\top$							Т			0
		2	FY 01	A	2776	2776	0										$\top$		Т			Т							Г			0
		2	FY 01	MC	305	305	0										$\top$		Т			Т							Г			0
		2	FY 02	A	4139	4139	0																									0
		2	FY 02	FMS	231	231	0																									0
		2	FY 03	A	1478	1344	134	134											┸										L			0
		2	FY 03	FMS	364	364	0												┸										L			0
		4	FY 04	A	901	0	901		82	82	82	82	82	82	82	82	82	82	81										L			0
		4	FY 05	A	1062	0	1062												┸	89	39	89	89	89	89	88	88	88	8	8 88	88	0
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M			PRO	ODUCTI	ION RATES			M	FR						ADM	INLEA	O TIN	ИE	_	MI	R		T	OTAI	L	R	EMAR	KS				
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	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL		110.00		440.00	560.00	0	- 2	2	INIT					11 1			3	+	2:		+		25 23		ł						
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٥	54/CLO - Munityear 5, Tucson,AZ/Offanido,FL		10.00		70.00	60.00	U		4	INIT					11			3	+	2:		+		25		ł						
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	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A N P A R	I J A U I N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
Co	mmand Launch Unit																														
		3	FY 99	MC	153	153	0																								0
		3	FY 00	A	610	610	0																								0
		3	FY 00	MC	77	77	0																								0
		3	FY 01	Α	808	808	0																								0
		3	FY 02	A	840	840	0																								0
		3	FY 02	FMS	52	52	0									$\top$															0
		3	FY 03	A	707	707	0																							$\neg$	0
		3	FY 03	FMS	40	0	40																							$\neg$	40
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To	tal				24811	22554	2257	144	92	92	92	92	92	92	92 9	92 9	2 92	91	89	89	89	89	89	89	88	88	88	88	88	88	40
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								T	V	С	N	В	R	R	/ N	L	G	P	T	V	С	N	В	R	R	Y	N	L	G	P	
M			PR	ODUCTI	ON RATES		BB 4 5	MI								LEAD			•	MFR			ГОТА		RI	EMAR	KS				
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R	NAME/LOCATION		MIN.	1	-8-5	MAX.	D+	1		INIT		$\rightarrow$			1	+	3			22			25								
	JV/All Up Round Multiyear 1, Tucson, AZ/Orlando, FL		110.00		440.00	560.00	0				RDER						1			22 22			23 25								
2	JV/All Up Round Multiyear 2, Tucson, AZ/Orlando, FL		110.00		440.00	560.00	0	2	2	INIT		-			1	+	3 1			22			23								
3	JV/CLU Multiyear 2, Tucson, AZ/Orlando, FL JV/All Up Round - Multiyear 3, Tucson, AZ/Orlando, FL		10.00 110.00		70.00 440.00	80.00 560.00	0				RDER				1		3			22			25								
- 4	JV/CLU - Multiyear 3, Tucson,AZ/Orlando,FL  JV/CLU - Multiyear 3, Tucson,AZ/Orlando,FL		10.00		70.00	80.00	0	3	3	INIT	RDER	-				+	1			22			23								
3	3 V/CLO - Miditiyear 3, Tucson,AZ/Oriando,FL		10.00		70.00	80.00	U			INIT					1		3			22			25								
								4	,		RDER						1			22			23								
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Exl	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	I	February 2003					
Appropriation/Budget Ac Missile Procurement, Army	-					P-1 Item Nom JAV		S-M) SYSTEM	SUMMARY(	(Adv Proc) (C	C0007)				
Program Elements for Co															
	Prior Years	FY 2001	FY 2002	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog						
Proc Qty															
Gross Cost	53.0	13.9	17.2	9.0		7.6						100.6			
Less PY Adv Proc	53.0	13.9	17.2	9.0		7.6						100.6			
Plus CY Adv Proc	93.0				7.6							100.6			
Net Proc (P-1)	93.0				7.6							100.6			
Initial Spares															
Total Proc Cost	93.0				7.6							100.6			
Flyaway U/C															
Wpn Sys Proc U/C															

Javelin, a fire-and-forget system, is critical to the operational design of the Army's Objective Force because of its man-portability, high reliability, and capability to engage multiple targets. This project provides procurement funds for Javelin, the medium antitank system for infantry, scouts, combat engineers and interim forces. These forces must have the capability to defeat numerically superior armored forces. The Javelin, a replacement for the DRAGON, provides the individual soldier the capability of defeating multiple types of targets (tanks, APCs, bunkers, helicopter, walls, etc). These characteristics (manportability, reliability, 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 uses a modular design 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, and handling exercises. The Javelin system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

#### Justification:

FY04/FY05 funds advance procurement for economic order quantity (EOQ) to support a two-year multiyear production contract for Javelin. 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. 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.

Advance Procurement Requirem	ents A	nalve	is -Fundii	ng (P10A)	,	First System	Award Date:		First System	Completion Da	ate:	Date:	ebruary 2003	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /2/Other missiles	icitus 1	marys	is -1 unun	ig (I IV/I	,				ture / Weapon -M) SYSTEM :				cordary 2003	
							(\$	in Millions)						
	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	To Comp	Total
End Item Quantity  EOQ ITEMS Launch Tube Assembly Componen Propulsion Components Missile/BCU Battery Components Focal Plane Array Components Control Acurator Sys. Components Guidan. Electronics Unit Components Receptacle Cover Components							1062 0.5 1.6 0.3 3.4 1.3 0.4 0.1							1062 0.5 1.6 0.3 3.4 1.3 0.4 0.1
Total Advance Procurement			0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Economic Order Quantity (EOQ) supports two-year	multiyea	ır (FY04	-05) to procu	re total of $\overline{1,9}$	63 Javelin m	issiles. EOQ	funding will	be used to pr	ocure total co	omponents ne	eded from sn	naller vendor	s to fulfill mu	ltiyear

Advance Procurement Requirement	ents Ar	nalysis -Fur	nding (P101	<b>B</b> )				Date: Fe	bruary 2003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /2/Other missiles						tem Nomenclature / Weapor ELIN (AAWS-M) SYSTEM			
					(\$	in Millions)			
		Quantity			2004			200	)5
	PLT (mos)	Per Assembly	Unit Cost	Qty	Contract Forcast Date	Total Cost Request	Qty	Contract Forcast Date	Total Cost Request
End Item Quantity:				1062	Dec-03				
EOQ ITEMS Launch Tube Assembly Componen Propulsion Components Missile/BCU Battery Components Focal Plane Array Components Control Acurator Sys. Components Guidan. Electronics Unit Components Receptacle Cover Components				500 1600 300 3500 1300 400 100					0.500 1.600 0.300 3.400 1.300 0.400 0.100
<b>Total Advance Procurement</b>						0.000			7.600
EOQ supports two-year multiyear (FY04-05) to proceed	ure a total	of 1,963 Javeli	n missiles. EO(	Q funding will be use	ed to procure total cor	mponents needed from si	maller vendors to	fulfill multiyear requiren	nents.

Ex	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ite:	F	February 2003		
Appropriation/Budget Ao Missile Procurement, Army						P-1 Item Nom LIN		ANTI-TANK (	(LOSAT) SYS	TEM SUM (H	(09000)	
Program Elements for Co	ode B Items:			Code:	Other Relate	ed Program Ele	ements:	0604819A,	0603654A			
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty					76	165	200	192	344	144	547	1668
Gross Cost				0.1	43.2	86.6	111.5	108.6	138.8	104.0	284.5	877.3
Less PY Adv Proc				0.1								0.1
Plus CY Adv Proc			0.1									0.1
Net Proc (P-1)			0.1		43.2	86.6	111.5	108.6	138.8	104.0	284.5	877.3
Initial Spares												
Total Proc Cost			0.1		43.2	86.6	111.5	108.6	138.8	104.0	284.5	877.3
Flyaway U/C												
Wpn Sys Proc U/C					0.6	0.5	0.6	0.6	0.4	0.7	0.5	

Line-of-Sight Anti-Tank (LOSAT) and Kinetic Energy Missile (KEM) technology provide the foundation for the Objective Force. This program focuses on the integration of the LOSAT weapon system into a light, early deployable configuration in order to help remedy the urgent need for 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. Once in theater, LOSAT is extremely mobile, to include air droppable and sling loading under CH-47 and UH-60L aircraft. 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. This system supports the Legacy to Objective Force transition path of the Transformation Campaign Plan (TCP).

#### Justification:

The FY 04/05 funds procure 241 LOSAT missiles and 20 Fire Units. LOSAT mitigates the Light Force survivability/lethality shortcoming identified in the Light Antitank Study (FEB99).

Exh	nibit P-40	, Budge	t Item J	ustifica	tion She	et	Da	te:	F	ebruary 2003				
Appropriation/Budget Act Missile Procurement, Army /:	•					P-1 Item Nom LOS	nenclature SAT MISSILE	(H09100)						
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:	PE0603654	A AND PE060	)4819A				
PE0603654A AND PE0604819A  Prior Years FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To														
Proc Qty					76	165	200	192	344	144	547	1668		
Gross Cost				0.1	43.2	86.6	111.5	108.6	138.8	104.0	284.5	877.3		
Less PY Adv Proc	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0		0.1		
Plus CY Adv Proc	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.1		
Net Proc (P-1)			0.1		43.2	86.6	111.5	108.6	138.8	104.0	284.5	877.3		
Initial Spares														
Total Proc Cost			0.1		43.2	86.6	111.5	108.6	138.8	104.0	284.5	877.3		
Flyaway U/C														
Wpn Sys Proc U/C					0.6	0.5	0.6	0.6	0.4	0.7	0.5			

Line-of-Sight Anti-Tank (LOSAT) and Kinetic Energy Missile (KEM) technology provides the foundation for the Objective Force. This program focuses on the integration of the LOSAT weapon system into a light, early deployable configuration in order to help remedy the urgent need for 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 will provide an assault support weapon capability. LOSAT is strategically and tactically deployable, giving commanders and decision makers greater flexibility. Once in theater, LOSAT is extremely mobile, to include air droppable and sling loading under CH-47 and UH-60L aircraft. The performance of this hypervelocity kinetic energy missile (velocity of a mile per second) is not affected by the proliferation of emerging threat active protective systems and enhanced reactive armors. 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 in flight tests and advanced warfighting experiments, and evaluate affordability issues. In December 1999, the Army and DOD funded the LOSAT accelerated advanced development and procurement as part of the Army Transformation, adding additional design activities, test hardware, and qualification and operational tests concurrent with the ACTD, which will assur

### **Justification:**

The FY 04/05 funds procure 241 LOSAT missiles and 20 Fire Units. LOSAT mitigates the Light Force survivability/lethality shortcoming identified in the Light Antitank Study (FEB99).

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/E Missile Procur		vity/Serial No. / 2 / Other missiles			Item Nomenclatur ISSILE (H09100)	e:		Weapon System T	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Missile (MSL) Hardware Missiles (Complete Round) Engineering Change Orders		\$000	Each	\$000	\$000	Each	\$000	\$000 21268 784	Each 76	\$000 280	\$000 37365 1275	Each 165	\$000 226
Subtotal Missile Hardware								22052			38640		
MSL Flyaway Cost Fire Unit (FU) Hardware								22052			38640		
Launch Unit Gov't Furnished Equipment Engineering Change Orders Engineering Services								14258 552 576	6	2376	31263 2319 1627	14	2234
Fielding								1538			4355		
Subtotal FU Hardware								16924			39564		
Fire Unit Rollaway Cost Procurement Support								16924			39564		
Project Management Production Engineering Test and Evaluation Interim Contractor Logistics Support Pubs/Tech Data								972 2583 283 148			1746 3366 998 922 273		
Sub Total								3986			7305		
Training Devices Training Devices								270			1076		
Sub Total								270			1076		
Other Cost Less Prior Year Adv Proc Plus: P -1 CY Adv Proc Other Non P -1 Costs		111	-111										
Total Other Cost Total		111 111						43232			86585		

Exhibit P-5a, Budget Procurement History	ory and Planning							Date: F	ebruary 20	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syster	п Туре:		P-1 Line Ito LOSAT MISSI		lature:			
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
Missiles (Complete Round) FY 2004 FY 2005	DALLAS, TX LMMFC-MISSILE DALLAS, TX	FPIF FPIF	AMCOM	Apr 04 Dec 05	Jul 05 Mar 06	76 165	280 226	No No		
REMARKS: Low rate initial production (LRIP) is scheduled t	o begin in FY 04.									

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Exh	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2003		
Appropriation/Budget Act Missile Procurement, Army /	•					P-1 Item Nom TOV		SUMMARY (	C59300)			
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	144783				200	500	800	462	454	445		147644
Gross Cost	2287.8				10.0	39.3	29.7	26.3	26.2	26.2		2445.4
Less PY Adv Proc	16.1					12.9	3.4					32.5
Plus CY Adv Proc	16.1				16.4							32.5
Net Proc (P-1)	2287.8				26.4	26.3	26.3	26.3	26.2	26.2		2445.4
Initial Spares	20.2											20.2
Total Proc Cost	2308.0				26.4	26.3	26.3	26.3	26.2	26.2		2465.6
Flyaway U/C												
Wpn Sys Proc U/C					0.1	0.1	0.0	0.1	0.1	0.1		

This latest version of the TOW 2B missile (TOW: Tube-launched, Optically-tracked, Wire command-link guided) provides the heavy anti-armor capability for the Army's Light Early-Entry Contingency Forces, the Brigade Combat Teams (BCT), and the Mechanized Infantry in the Counter-Attack Corps and the Containment Force. TOW 2B is also the primary heavy anti-armor missile for the U.S. Marine Corps and 39 Allied nations. This TOW 2B missile defeats all known and projected threat armor systems including those equipped with advanced armor, explosive reactive armor (ERA), and active protection systems (APS). TOW 2B utilizes dual warheads configured for top-attack to defeat threat armor systems at their most vulnerable point. This TOW 2B missile incorporates the GEN IIIA Counter Active Protection Systems(CAPS) enabling it to counter all current and projected threat APS. Incorporation of a new aerodynamic nose and additional wire extends the range of this TOW 2B and allows the soldier to engage and defeat threat armor systems out to 4,500 meters. Soldiers also employ TOW 2B in a secondary role against buildings and field fortifications taking advantage of the missile's inherent capability against such targets. The TOW 2B missile is launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker ATGM Light Armored Vehicle (LAV), the M220A2 TOW 2 launcher, and the M901A1 Improved TOW Vehicles. The USMC employs the TOW 2B missile from its M220A2 launchers, ATGM - LAV, and AH-1 Cobra helicopters. The TOW 2B missile provides the warfighter with a highly lethal, cost effective, inter-operable, multi-purpose weapon capable of defeating all known and projected threat armor systems well into this century. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

FY04-06 is a multiyear contract with options.

### **Justification:**

FY04/FY05 funds the first two years of a three-year multiyear contract to procure new missiles to maintain an effective heavy anti-armor capability for the Army's Early-Entry, Counter-Attack, and Containment Forces.

Exl	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2003		
Appropriation/Budget Ac Missile Procurement, Army	-					P-1 Item Nom TOV		BGM-71D)(6"	) (C59403)			
Program Elements for Co	ode B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	144783				200	500	800	462	454	445		147644
Gross Cost	1859.9				10.0	39.3	29.7	26.3	26.2	26.2		2017.5
Less PY Adv Proc	16.1					12.9	3.4					32.5
Plus CY Adv Proc	16.1				16.4							32.5
Net Proc (P-1)	1859.9				26.4	26.3	26.3	26.3	26.2	26.2		2017.5
Initial Spares												
Total Proc Cost	1859.9				26.4	26.3	26.3	26.3	26.2	26.2		2017.5
Flyaway U/C												
Wpn Sys Proc U/C					0.1	0.1	0.0	0.1	0.1	0.1		

This latest version of the TOW 2B missile (TOW: Tube-launched, Optically-tracked, Wire command-link guided) provides the heavy anti-armor capability for the Army's Light Early-Entry Contingency Forces, the Brigade Combat Teams (BCT), and the Mechanized Infantry in the Counter-Attack Corps and the Containment Force. TOW 2B is also the primary heavy anti-armor missile for the U.S. Marine Corps and 39 Allied nations. This TOW 2B missile defeats all known and projected threat armor systems including those equipped with advanced armor, explosive reactive armor (ERA), and active protection systems (APS). TOW 2B utilizes dual warheads configured for top-attack to defeat threat armor systems at their most vulnerable point. This TOW 2B missile incorporates the GEN IIIA Counter Active Protection Systems (CAPS) enabling it to counter all current and projected threat APS. Incorporation of a new aerodynamic nose and additional wire extends the range of this TOW 2B and allows the soldier to engage and defeat threat armor systems out to 4,500 meters. Soldiers also employ TOW 2B in a secondary role against buildings and field fortifications taking advantage of the missile's inherent capability against such targets. The TOW 2B missile is launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker ATGM Light Armored Vehicle (LAV), the M220A2 TOW 2 launcher, and the M901A1 Improved TOW Vehicles. The USMC employs the TOW 2B missile from its M220A2 launchers, ATGM - LAV, and AH-1 Cobra helicopters. The TOW 2B missile provides the warfighter with a highly lethal, cost effective, inter-operable, multi-purpose weapon capable of defeating all known and projected threat armor systems well into this century. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

#### Justification:

FY04/FY05 funds the first two years of a three-year multiyear contract to procure new TOW missiles to maintain an effective heavy anti-armor capability for the Army's Early-Entry, Counter-Attack, and Containment Forces.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/F Missile Procu		rity/Serial No. /2/Other missiles			tem Nomenclatur SSLE (BGM-71D)(6			Weapon System T	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	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 Contract								9600	200	48	24000	500	48
Engineering Change Orders Engineering Services								210			1230		
Fielding Acceptance Testing								100			392		
SubTotal Missle Hardware								9910			25622		
Engineering Support Project Mgt Admin								100			270		
Production Engineering Support								100			2.0		
SubTotal Engineering Support								100			270		
Non-Recurring Costs													
Economic Order Quantity IPF											13375		
SubTotal Non-Recurring Costs											13375		
Total Flyaway								10010			39267		
Support Costs													
Peculiar Support Equipment Training Device (B/S)													
SubTotal Support Costs													
Gross P-1 End Cost													
Less: Prior Year Adv Proc Net P -1Full Funding Cost											12946		
PLUS P-1 CY Adv. Proc.								16366					
Other Non P -1 Costs Initial Spares													
MODS													
Total								26376			26321		

Exhibit P-5a, Budget Procurement His	tory and Planning							Date: Fo	ebruary 20	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syster	т Туре:		P-1 Line Ite TOW 2 MISSL	em Nomencl E (BGM-71D)(6				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Missile Contract FY 2004 FY 2005	Raytheon Tucson, AZ Raytheon Tucson, AZ	MY/FFP MY/FFP	AMCOM, RSA, AL	Jan 04 Dec 04	Jul 05 Jun 06	200	48 48	Yes Yes		
REMARKS: Raytheon is currently the only industry source FY04-06 is a multiyear contract with options.	hat is both facilitized and qualified to prod	uce the TOW 2	A and TOW 2B tactical missiles an	d the TOW	<sup>7</sup> 2A practic	ee missile.				

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_			FY 06	A	800	800	0									_	_									L						0
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Exhi	bit P-40	, Budge	t Item J	ustifica	tion She	eet	:	Date:	I	February 2003		
Appropriation/Budget Activ Missile Procurement, Army /2/0	-					P-1 Item Nom TOV		M SUMMARY(A	Adv Proc) (C5	9300)		
Program Elements for Code	B Items:			Code:	Other Relate	ed Program El	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc	0.0											
Plus CY Adv Proc	16.1				16.4							32.5
Net Proc (P-1)	16.1				16.4							32.5
Initial Spares												
Total Proc Cost	16.1				16.4							32.5
Flyaway U/C												
Wpn Sys Proc U/C												

This latest version of the TOW 2B missile (TOW: Tube-launched, Optically-tracked, Wire command-link guided) provides the heavy anti-armor capability for the Army's Light Early-Entry Contingency Forces, the Brigade Combat Teams (BCT), and the Mechanized Infantry in the Counter-Attack Corps and the Containment Force. TOW 2B is also the primary heavy anti-armor missile for the U.S. Marine Corps and 39 Allied nations. This TOW 2B missile defeats all known and projected threat armor systems including those equipped with advanced armor, explosive reactive armor (ERA), and active protection systems (APS). TOW 2B utilizes dual warheads configured for top-attack to defeat threat armor systems at their most vulnerable point. This TOW 2B missile incorporates the GEN IIIA Counter Active Protection Systems (CAPS) enabling it to counter all current and projected threat APS. Incorporation of a new aerodynamic nose and additional wire extends the range of this TOW 2B and allows the soldier to engage and defeat threat armor systems out to 4,500 meters. Soldiers also employ TOW 2B in a secondary role against buildings and field fortifications taking advantage of the missile's inherent capability against such targets. The TOW 2B missile is launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker ATGM Light Armored Vehicle (LAV), the M220A2 TOW 2 launcher, and the M901A1 Improved TOW Vehicles. The USMC employs the TOW 2B missile from its M220A2 launchers, ATGM - LAV, and AH-1 Cobra helicopters. The TOW 2B missile provides the warfighter with a highly lethal, cost effective, inter-operable, multi-purpose weapon capable of defeating all known and projected threat armor systems well into this century. This system supports the Legacy to Interim transition path of the Transformation Campaign Plan (TCP).

FY04-06 is a multiyear contract with options.

### **Justification:**

FY04/FY05 funding procures new TOW missiles to maintain an effective heavy anti-armor capability for the Army's Early-Entry, Counter-Attack, and Containment Forces.

Advance Procurement Re	quirements A	analysi	is -Fundiı	ng (P10A	)	First System I	Dec 03		. A	Completion Da Apr 05	ite:	Date:	ebruary 2003	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army /2/Other	missiles						TOV	V 2 SYSTEM S	ature / Weapon SUMMARY	System				
							(\$	in Millions)						
	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	To Comp	Total
End Item Quantity														
Modulator Launch Motor TOW 2 Sensor Assy Pyro Switch Micro Circuit M114 S&A Device Shutter Preform DEU Assy Actuator Bulkhead Forging Beacon Shutter Actuator TOW 2B Warhead Igniter Grain Fwd Case Preform Aft Case Preform Wing Lug Casting Battery Retainer Gyro	10 15 15 15 14 14 14 13 13 13 12 12 12 11 11 11 11						0.2 0.8 6.1 0.0 0.3 0.0 0.6 1.3 0.0 0.2 5.1 0.0 0.0 0.0 0.3 0.0							0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
<b>Total Advance Procurement</b>			0.0	0.0	0.0	0.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	16

#### Date: Advance Procurement Requirements Analysis - Funding (P10B) February 2003 Appropriation/Budget Activity/Serial No: P-1 Line Item Nomenclature / Weapon System Missile Procurement, Army /2/Other missiles TOW 2 SYSTEM SUMMARY (\$ in Millions) 2004 2005 Quantity **PLT** Per Contract Total Total Unit Contract Qty **Forcast Date Cost Request Forcast Date Cost Request** (mos) Assembly Cost Qty End Item Quantity: 10 632 0.170 Modulator 15 632 0.842 Launch Motor 15 632 TOW 2 Sensor Assy 6.141 15 632 0.092 Pyro Switch Micro Circuit 14 632 0.007 14 632 M114 S&A Device 0.312 Shutter Preform 14 632 0.003 13 0.552 DEU Assy 632 13 632 1.279 Actuator **Bulkhead Forging** 13 632 0.021 Beacon Shutter Actuator 13 632 0.224 12 TOW 2B Warhead 632 5.105 12 Igniter Grain 632 0.014 632 Fwd Case Preform 11 0.038 Aft Case Preform 632 0.038 11 Wing Lug Casting 632 0.007 11 632 0.256 Battery 11 632 0.006 Retainer 10 632 1.259 Gyro **Total Advance Procurement** 0.000 16.366

Advanced Procurement will support multiyear procurement.

Exl	hibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ate:	F	ebruary 2003		
Appropriation/Budget Ac Missile Procurement, Army	-					P-1 Item Nom GUI		ROCKET (GM	LRS) (C65404	)		
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:	C65400, C6	55402, C65405			
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty				108	786	1026	1218	2688	5814	6942	121422	140004
Gross Cost				36.6	107.8	112.6	129.8	249.8	487.7	570.9	9980.2	11675.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				36.6	107.8	112.6	129.8	249.8	487.7	570.9	9980.2	11675.3
Initial Spares												
Total Proc Cost				36.6	107.8	112.6	129.8	249.8	487.7	570.9	9980.2	11675.3
Flyaway U/C												
Wpn Sys Proc U/C				0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

The Guided Multiple Launch Rocket System (GMLRS) is a precision strike, artillery rocket system. Coupled with the High Mobility Artillery Rocket Systemn (HIMARS) launcher platform, the GMLRS provides the warfighter with a highly mobile, rapidly deployable, precision guided munition with a reduced logistics burden effective against counterfire, air defense, light materiel, and personnel targets. The GMLRS is a major upgrade to the M26 series rocket and replaces the aging M26 inventory. GMLRS will integrate a quidance and control package and a new rocket motor to achieve greater range and precision accuracy requiring fewer rockets to defeat targets than current artillery rockets, thereby reducing the logistics burden. The GMLRS will also become the primary munition for the artillery units fielded with the M270A1 launcher. The GMLRS is a five nation cooperative program among France, Germany, Italy, United Kingdom and the United States. FY03 initiated efforts to develop a new high explosive warhead and fuzing system for the GMLRS known as the GMLRS-Unitary. The GMLRS-Unitary is an all weather, low collateral damage precision rocket which addresses an expanded MLRS target set to include point targets within urban and complex environments. It is a pre-planned product improvement that will integrate a multi-mode fuze and high explosive insensitive munition into a warhead of the same GMLRS dimensions. GMLRS-Unitary satisfies a validated user requirement and will be fielded to support early entry forces, Stryker brigades and the unit of action in the objective force. FY05 initiates efforts to meet the DOD mandate on insensitive munitions effort. Additionally, seeker technologies will be assessed for spiral development and potential insertion into GMLRS Unitary to provide operational flexibility against an expanded target set including moving targets. The GMLRS and GMLRS-Unitary support the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

#### Justification:

FY04/05 procures 786 and 1026 GMLRS rockets, respectively, for LRIPs II and III. This rocket is the baseline for all future Objective Force MLRS/HIMARS Rocket Munitions.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/I Missile Procu	Budget Activ ement, Army	vity/Serial No. /2/Other missiles			tem Nomenclature ILRS ROCKET (GM			Weapon System T	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Missile Hardware Recurring Tactical GMLRS Engineering Services Ind Maint/Init Prod Fac Fielding					16845 418 7500	108	156	89548 1588 3938 19	786	114	88892 1066 134		87
Subtotal Hardware					24763			95093			90092		
Procurement Support Project Management Admin Production Engineering Support Government Test					2177 3830			7275 5391			8370 5846 8338		
Subtotal Procurement Support					6007			12666			22554		
Total Missile Flyaway Support Costs					30770			107759			112646		
Msl Test Device and Trainer					5780								
Subtotal Support Costs					5780								
Total					36550			107759			112646		

propriation/Budget Activity/Serial No: ssile Procurement, Army / 2 / Other missiles		Weapon Syste	ет Туре:			em Nomeno RS ROCKET (G	lature: MLRS) (C65404)			
BS 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 Issu Date
Cactical GMLRS										
FY 2003	Lockheed Martin M.&F.C Sys. Dallas, TX	SS/FFP	AMCOM	Mar-03	Jun-04	108	156	No		
FY 2004	Lockheed Martin M.&F.C Sys. Dallas, TX	SS/FFP	AMCOM	Apr-04	Jan-05	786	114	No		
FY 2005	Lockheed Martin M.&F.C Sys. Dallas, TX	SS/FFP	AMCOM	Apr-05	Jan-06	1026	87	No		
MARKS: Lockheed Martin is currently the	e industry source that is both facilitized and qualified	to produce the GM	ILRS rocket. FY07 starts produc	ction of the GM	ILRS-Unita	ary Rocket	for delivery i	n FY08.		

	FY 03 / 04 BUDGET PRO	OD	UCTION	SCH	[EDUL]	E			Item N DED I				(GM	ILRS)	(C65	404)							]	Date:			Feb	ruary	2003			
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Ta	ctical GMLRS															_										H			H			
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		1	FY 04	A	786	0	786																			A	١					786
		1	FY 05	A	1026	0	1026																			L						1026
		1	FY 06	A	1218	0	1218									_																1218
		1	FY 07	A	2688	0	2688			_						_										L						2688
		_	FY 08	A	5814	0	5814			_						_								_		╙						5814
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		1	FY 04	A	786	0	786				36	48	48	48	66	66	72	78	78	78	84	84										0
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		1	FY 06	A	1218	1218	0																									0
		1	FY 07	A	2688	1848	840	264	264	312																						0
		1	FY 08	A	5814	0	5814				312	378	414	438	450	474	498	558	564	576	576	576										0
		1	FY 09	A	6942	0	6942							A									576	576	576	576	576	576	576	582	582	1746
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Tot	al				18582	4986	13596	264	264	312	312	378	414	438	450	474	498	558	564	576	576	576	576	576	576	576	576	576	576	582	582	1746
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M			PR	ODUCTI	ON RATES			MI	₹R						ADM	11NLE	AD T	IME			MFR			ТОТА	L	RI	EMAR	KS				
F							REACHED	Nun	nber					Pric	or 1 O	ct	Af	ter 1 O	ct	Af	ter 1 C	Oct	A	fter 1 (	Oct	]						
R	NAME/LOCATION		MIN.	1	1-8-5	MAX.	D+			INIT	IAL				8			2			15			17								
1	Lockheed Martin M.&F.C Sys., Dallas, TX		42.00		250.00	500.00	12	1		REO	RDER				0			2			9			11								
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	FY 11 / 12 BUDGET PF	ROD	UCTION	SCH	IEDUL:	E		P-1 I GUII					(GM	ILRS)	(C65	404)							]	Date:			Feb	ruary	2003			
												Fis	scal Y	Year 1										F	iscal							Ţ
		M	FY	S E	PROC QTY	ACCEP PRIOR	BAL DUE			-		-				endar						-		-				ear 1				L A
	COST ELEMENTS	F R	гі	R V	Each	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U N	J U L	A U G	S E P	T E R
т	actical GMLRS															-										-						
1	utical GWLKS	1	FY 03	A	108	108	0									_										Н						0
			FY 04	A	786	786	0									┪										Н						0
		1	FY 05	A	1026	1026	0									┪										Г						0
		1	FY 06	A	1218	1218	0																									0
		1	FY 07	A	2688	2688	0																									0
			FY 08	A	5814	5814	0								_	_														Ш		0
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Т	otal				18582	16836	1746	582	582	582																						
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M			PR	ODUCTI	ON RATES			MF	FR.						ADM	IINLE	AD T	IME			MFR		,	ТОТА	L	R	EMAR	KS				
F							REACHED	Nun	nber					Pric	or 1 O	ct	Af	ter 1 O	ct	Ai	ter 1 C	Oct	A	fter 1	Oct	4						
R	NAME/LOCATION		MIN.	1	1-8-5	MAX.	D+	1		INIT					8			2			15		L	17		1						
1	Lockheed Martin M.&F.C Sys., Dallas, TX		42.00		250.00	500.00	12				RDER				0			2			9			11		1						
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Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2003		
Appropriation/Budget Ac Missile Procurement, Army /	•					P-1 Item Nom MLI		) RANGE PRA	ACTICE ROCI	KETS (RRPR)	(C65405)	
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:	C65400, C6	5402, C65404			
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty				3366	2934	3054	3150	3252	3270	3240	29484	51750
Gross Cost				15.6	14.6	15.5	16.4	17.4	18.0	18.4	197.9	314.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				15.6	14.6	15.5	16.4	17.4	18.0	18.4	197.9	314.1
Initial Spares												
Total Proc Cost				15.6	14.6	15.5	16.4	17.4	18.0	18.4	197.9	314.1
Flyaway U/C												
Wpn Sys Proc U/C				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

The Multiple Launch Rocket System (MLRS) Reduced Range Practice Rocket (RRPR) is a training rocket which is allocated to Active Duty and Reserve Component units. The rocket has an inert payload section with a blunt nose for inducing reduced range for use at multiple ranges CONUS and OCONUS. The MLRS RRPR has been in inventory since 1993 with the last United States procurement in FY95. The current stockpile of MLRS RRPRs for training use by the MLRS units is being reduced due to training consumption and requires replenishment to preclude stockpile depletion and to sustain adequate stockpile margins. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

### **Justification:**

FY04/05 funding procures 2934 and 3054 RRPRs respectively, which are required to replenish Standards in Training Commission (STRAC) requirements for practice rocket inventory.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/l Missile Procu		vity/Serial No. / 2 / Other missiles		P-1 Line I MLRS REI (RRPR) (Co	tem Nomenclature DUCED RANGE PRA 55405)	e: ACTICE ROCKETS		Weapon System	Гуре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
<b>Cost Elements</b>	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE Reduced Range Practice Rocket (RRPR) Fielding					14645	3366	4	12907 175	2934	4	13384 175	3054	2
SUBTOTAL					14645			13082			13559		
PROCUREMENT SUPPORT Project Management Admin Production Engineering Support Test and Evaluation					437 565			484 587 493			643 831 497		
SUBTOTAL					1002			1564			1971		
Total					1002			1564			1971		
Total					15647			14646			15530		

Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles	nt History and Planning	Weapon Syste	em Type:			em Nomeno CED RANGE PI	lature:		ebruary 2 5405)	003
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 Iss Date
Reduced Range Practice Rocket (RRPR)										
FY 2003	Lockheed Martin M.&F.C. Sys. Dallax,TX	SS/FFP	AMCOM	Mar-03	Nov-03	3366	4	No		Nov-(
FY 2004	Lockheed Martin M.&F.C. Sys. Dallax,TX	SS/FFP	AMCOM	Mar-04	Nov-04	2934	4	No		
FY 2005	Lockheed Martin M.&F.C. Sys. Dallax,TX	SS/FFP	АМСОМ	Mar-05	Nov-05	3054	4	No		
EMARKS: Lookheed Martin is currently the indu	stry source that is both facilitized and qualified to	meduae the Red	hand Dange Dreetige Deelset							
Lcokneed Martin is currently the indus	su'y source mai is bom rachiuzed and quanned to	produce the Rec	nuceu Range Fractice Rocket.							

	FY 03 / 04 BUDGET 1	PROD	OUCTION	SCH	IEDUL	E			Item No RS RED				E PRA	ACTIO	CE RC	OCKE	ETS (	RRPF	t) (C	55405	)		]	Date:			Feb	ruary	2003			
												Fis	scal Y	ear (	)3									F	iscal	Year	04					
				S	PROC	ACCEP	BAL			_			_			endar	Yea	r 03							(	Calen	dar Y	ear 0	4			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
Re	duced Range Practice Rocket (RRPR)																															
		1	FY 03	Α	3366	0	3366						A								276	276	276	276	276	276	282	282	282	288	288	288
		1	FY 04	A	2934	0	2934																		A	L.						2934
		1	FY 05	A	3054	0	3054																									3054
US	SMC									_			_																			
		1	FY 04	MC	618	0	618			_			_			_									A							618
		1	FY 05	MC	552	0	552			_																						552
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То	tal				10524		10524														276	276	276	276	276	276	282	282	282	288	288	7446
								O C T	0	D E C	J A N		M A R	A P R	Α		J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S E P	
M			PR	ODUCTI	ON RATES			M	FR						ADM	IINLE	AD T	IME			MFR			ТОТА	.L	RI	EMAR	KS				
F							REACHED	Nur	nber					Pri	or 1 O	ct	A	fter 1 (	Oct	At	fter 1 (	Oct	A	fter 1 (	Oct							
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+			INIT	IAL				8			2			8			10								
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	FY 05 / 06 BUDGET	PROD	OUCTION	SCH	IEDUL!	E			tem N S REI				E PRA	ACTIO	CE RC	OCKE	ETS (	RRPF	l) (Ce	55405	)		I	Date:			Feb	ruary	2003			
												Fis	scal Y	ear 0'	)5									F	iscal	Year	06					
				S	PROC	ACCEP	BAL						_		Cale	endar	· Yea	r 05								Calen	dar Y	ear 0	6			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
Re	duced Range Practice Rocket (RRPR)																															
		1	FY 03	A	3366	3078	288	288																								0
		1	FY 04	A	2934	0	2934		240	240	240	240	240	240	246	246	246	252	252	252												0
		1	FY 05	A	3054	0	3054						A								252	252	252	252	2 252	252	252	258	258	258	258	258
US	SMC												_																			
		1	FY 04	MC	618	0	618		48	48	48	48	48	54	54	54	54	54	54	54												0
		1	FY 05	MC	552	0	552						Α								54	54	48	48	3 48	48	42	42	42	42	42	42
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То	tal				10524	3078	7446	288	288	288	288	288	288	294	300	300	300	306	306	306	306	306	300	300	300	300	294	300	300	300	300	300
								О	N	D	J	F	M	A	M	J	J	Α	S	О	N	D	J	F	M	Α	M	J	J	Α	S	
								C	0	E		Е	A	P		U	U	U	Е	C	0	Е	A	Е	A	P	A	U	U	U	Е	
								T	V	C	N	В	R	R	Y	N	L	G	P	T	V	С	N	В	R	R	Y	N	L	G	P	
M			PR	ODUCTI	ON RATES			MI	₹R						ADM	IINLE	AD T	IME			MFR		1	TOTA	L	R	EMAR	KS				
F							REACHED	Nun	nber					Pri	or 1 O	ct	A	fter 1 C	Oct	A	fter 1 (	Oct	A	fter 1	Oct	1						
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	1		INIT			_		8			2			8			10		1						
1	Lockheed Martin M.&F.C. Sys., Dallax,TX		42.00		480.00	960.00	12	<u>'</u>		REO	RDER		_		0			2			8			10		4						
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USMC  1 FY 04 MC 618 618 0		C
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C     O     E     A     E     A     P     A     U     U     U     E     C     O     E     A     E     A     P     T     V     C     N     B     R     Y     N     L     G     P     T     V     C     N     B     R     R     Y     N	<del>                                      </del>	
M PRODUCTION RATES MFR ADMINLEAD TIME MFR TOTAL REMARKS	J A S U U E L G P	
F REACHED Number Prior 1 Oct After 1 Oct After 1 Oct After 1 Oct		
R NAME/LOCATION MIN. 1-8-5 MAX. D+ INITIAL 8 2 8 10		
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Exh	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	nte:	I	February 2003		
Appropriation/Budget Act Missile Procurement, Army /2	•					P-1 Item Nom MLI		ER SYSTEMS	(C66400)			
Program Elements for Coo	de B Items:			Code:	Other Relate	ed Program Ele	ements:	C65900				
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	838	66	41	34								979
Gross Cost	2473.7	196.9	130.6	134.7	40.2	41.3	24.5					3041.9
Less PY Adv Proc	56.9											56.9
Plus CY Adv Proc	56.9											56.9
Net Proc (P-1)	2473.7	196.9	130.6	134.7	40.2	41.3	24.5					3041.9
Initial Spares	166.6	6.4	9.9	6.6	6.5	6.4						202.4
Total Proc Cost	2640.2	203.3	140.5	141.4	46.7	47.7	24.5					3244.3
Flyaway U/C											_	
Wpn Sys Proc U/C		3.0	3.2	4.0								

The M270A1 improves survivability by decreasing the time to aimpoint by 83%, decreasing the maintenance requirement by improving the system reliability, and decreasing operation and support costs by 31%. It also extends the range to engage targets to 300+ kilometers. The objectives of the MLRS are counterfire, suppression of enemy air defenses, light materiel and personnel targets. Operationally, the system is designed for mobility, flexibility, and range requirements necessary on the modern battlefield. Mounted on a derivative of the Bradley Fighting Vehicle (BFV), the launcher/loader requires a crew of three soldiers to conduct rocket and missile launches. The M270A1 is capable of firing either 12 rockets or 2 missiles from a single launcher. Utilizing the MLRS Family of Munitions, the system is now capable of engaging targets from ranges extending from 15 to 300+ kilometers. The M270A1 is one of the Army's recapitalization systems in which the launcher is completely remanufactured. The remanufactured launcher then adds the Improved Fire Control System (IFCS) and the Improved Launcher Mechanical System (ILMS) to complete the M270A1 upgrade. Procurement of the IFCS and ILMS upgrades began in FY98. The M270A1 upgrades are needed to fire the Army Tact ical Missile System (ATACMS) Block IA missile, Block II missile, ATACMS Unitary and Guided MLRS. The IFCS is a modification to the current Fire Control System that upgrades the system's electronics, providing increased processing capability, an embedded global positioning system for accurate position location for the launcher and munitions, and improved fault isolation for ease of launcher maintenance. The ILMS allows for faster target engagement on time-sensitive, short-dwell-time targets, greatly improves the survivability of the crew and the launcher by significantly reducing the time on the firing point and the time for reload operations. The versatility of the system permits adaptation to other warheads such as scatterable mines, unitary warheads, terminally g

### **Justification:**

FY04/FY05 funding provides for continued support of the remanufacture of Launcher Loader Module (LLM)/Carriers and supports production of the M270A1 launchers and associated support equipment to meet testing and fielding requirements.

The MLRS Launcher program production has been terminated after FY03 in order to fund Transformation and other higher priority Army programs.

Exl	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	nte:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army	-					P-1 Item Nom MLI		ER (C65900)				
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:	C66400				
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	838	66	41	34								979
Gross Cost	2473.7	196.9	130.6	134.7	40.2	41.3	24.5					3041.9
Less PY Adv Proc	56.9											56.9
Plus CY Adv Proc	56.9											56.9
Net Proc (P-1)	2473.7	196.9	130.6	134.7	40.2	41.3	24.5					3041.9
Initial Spares	166.6	6.4	9.9	6.6	6.5	6.4						202.4
Total Proc Cost	2640.2	203.3	140.5	141.4	46.7	47.7	24.5					3244.3
Flyaway U/C												
Wpn Sys Proc U/C		3.0	3.2	4.0								

The M270A1 improves survivability by decreasing the time to aimpoint by 83%, decreasing the maintenance requirement by improving the system reliability, and decreasing operation and support costs by 31%. It also extends the range to engage targets to 300+ kilometers. The objectives of the MLRS are counterfire, suppression of enemy air defenses, light materiel and personnel targets. Operationally, the system is designed for mobility, flexibility, and range requirements necessary on the modern battlefield. Mounted on a derivative of the Bradley Fighting Vehicle (BFV), the launcher/loader requires a crew of three soldiers to conduct rocket and missile launches. The M270A1 is capable of firing either 12 rockets or 2 missiles from a single launcher. Utilizing the MLRS Family of Munitions, the system is now capable of engaging targets from ranges extending from 15 to 300+ kilometers. The M270A1 is one of the Army's recapitalization systems in which the launcher is completely remanufactured. The remanufactured launcher then adds the Improved Fire Control System (IFCS) and the Improved Launcher Mechanical System (ILMS) to complete the M270A1 upgrade. Procurement of the IFCS and ILMS upgrades began in FY98. The M270A1 upgrades are needed to fire the Army Tact ical Missile System (ATACMS) Block IA missile, Block II missile, ATACMS Unitary and Guided MLRS. The IFCS is a modification to the current Fire Control System that upgrades the system's electronics, providing increased processing capability, an embedded global positioning system for accurate position location for the launcher and munitions, and improved fault isolation for ease of launcher maintenance. The ILMS allows for faster target engagement on time-sensitive, short-dwell-time targets, greatly improves the survivability of the crew and the launcher by significantly reducing the time on the firing point and the time for reload operations. The versatility of the system permits adaptation to other warheads such as scatterable mines, unitary warheads, terminally g

### **Justification:**

FY04-FY05 funding provides for continued support of the remanufacture of Launcher Loader Module (LLM)/Carriers and supports production of the M270A1 launchers and associated support equipment to meet testing and FY04 fielding to 1-21 FA (1st Cav Div) and 3-13 FA, FY05 fielding to 1-142 FA (AR NG), and 1-147 FA (SD NG).

The MLRS Launcher program production has been terminated after FY03 in order to fund Transformation and other higher priority Army programs.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procure		rity/Serial No. / 2 / Other missiles			tem Nomenclature NCHER (C65900)	o:		Weapon System	Туре:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
GROUND EQUIPMENT HARDWARE Launcher		65314	41	1593	63695	34	1873						
Remanufacture		12419	71	1373	19599	34	1075						
Launcher Pod/Container (LP/C) Trainer													
System Safety Reduction Evaluation 2x9/3x6 Launcher		1600											
Peculiar Support Equipment		7264			7338			8618			8294		
Engineering Services Production Engineering		13930 8521			14019 8198			11050 5454			11546 6195		
Other Government Agencies		8521 3941			5011			2798			3092		
Fielding		4480			6597			4453			5852		
Facilitization		3481			1604								
SUBTOTAL		120950			126061			32373			34979		
PROCUREMENT SUPPORT													
Project Management Admin		9656			8681			7782			6347		
SUBTOTAL		9656			8681			7782			6347		
Gross P-1 End Cost		130606			134742			40155			41326		
Total		130606			134742			40155			41326		
10tai		130000			134/42			40155			41320		

Exhibit P-5a, Budget Procurem	ent History and Planning							Date: F	ebruary 20	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syste	m Type:			em Nomenc CHER (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
REMARKS: Lockbeed Martin is currently the o	Lockheed Martin M.&F.C.Sys Dallas, Texas Lockheed Martin M.&F.C.Sys Dallas, Texas	SS/FFP SS/FFP	AMCOM	Dec 01 Dec 02	Dec 03	41 34	1593 1824	Yes Yes		
Lockneed Marun is currently the o	nly industry source that is both facilitized and qualif	ieu to produce the	WIZ/OAT Launcher.							

	FY 02 / 03 BUDGET PI	ROD	UCTION	SCH	EDUL	E			Item N RS LA			re: (C659	900)										]	Date:			Feb	ruary	2003			
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Ex	hibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ate:	F	February 2003		
Appropriation/Budget Ao Missile Procurement, Army	•					P-1 Item Nom HIM		CHER (C03000	))			
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty				28	24	37	48	51	58	60	582	888
Gross Cost				128.6	124.2	169.8	211.1	229.7	231.6	241.9	2565.9	3902.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				128.6	124.2	169.8	211.1	229.7	231.6	241.9	2565.9	3902.7
Initial Spares					7.5	4.0	8.5	7.6	13.1	10.5	171.9	223.2
Total Proc Cost				128.6	131.7	173.8	219.5	237.4	244.6	252.4	2737.9	4125.9
Flyaway U/C												
Wpn Sys Proc U/C				4.6	5.2	4.6	4.4	4.5	4.0	4.0	4.4	

High Mobility Artillery Rocket System (HIMARS) is a C-130 transportable, wheeled, indirect fire, rocket/missile launcher that is capable of firing all rockets and missiles in the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM). The HIMARS launcher (XM142) has extensive commonality with the MLRS M270A1 track launcher and will consist of a Fire Control System (FCS), a carrier (FMTV M1096 automotive chassis) and a launcher-loader module (LLM) that will perform all operations necessary to complete a fire mission. The MFOM is a family of rockets and missiles capable of attacking a variety of tactical and operational targets, providing the requisite range and lethality to support maneuver commanders. HIMARS meets Army's digitization requirements by interfacing with the Advanced Field Artillery Tactical Data System (AFATDS), fire support command and control system and the Force XXI Battle Command Brigade and Below (FBCB2). HIMARS will be interoperable with existing MLRS units in terms of communications and reloading capabilities. HIMARS will be an all-weather, day/night, indirect fire, single or multiple launch system capable of delivering the MFOM in support of light, airborne, air assault divisions and forced/early entry contingency force operations using a more deployable, lethal, survivable and tactically mobile long range system. The HIMARS will be deployable worldwide and will operate in a wide range of climatic conditions. It is already certified by the Air Force for fixed-wing air transport in a fully combat loaded, combat ready configuration. HIMARS as part of the Objective Force Unit of Employment will provide fires that share and isolate the battle space. The HIMARS will provide maneuver forces a flexible and lethal rocket/missile capability that can be employed by platoon, battery, or battalion, each with the ability to operate independently for a limited period. HIMARS units will execute general support general support reinforcing, or limited reinforcing missions. Stryke

#### **Justification:**

FY 04/05 procures Low Rate Initial Production (LRIP) II and LRIP III HIMARS launchers, trainers and associated support equipment. HIMARS meets the Army's modernization goal for the 21st century, is designated Army's "Legacy to Objective" rocket/missile delivery system, and was selected by Army strategic planners as one of the Army's "core" Transformation systems.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/I Missile Procu		vity/Serial No. /2/Other missiles			Item Nomenclature AUNCHER (C0300)			Weapon System T	Sype:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
GROUND EQUIPMENT HARDWARE Launcher Carrier Engineering Services Fielding Facilitization					86478 10808 2488 6809	28 28	3089 386	66412 10554 16213 1902 5562	24 24		90619 17574 16743 10289	37 37	2449 475
SUBTOTAL					106583			100643			135225		
PROCUREMENT SUPPORT Project Management Admin Production Engineering Government Testing					8579 9231			8531 7971 512			9398 9852 2274		
SUBTOTAL					17810			17014			21524		
Support Equipment Peculiar Support Equipment Trainers					3668 560	28	20	1886 4648	24	194	4056 8973	37	243
SUBTOTAL					4228			6534			13029		
Gross P-1 End Cost Other Non P-1 Costs					128621			124191			169778		
Initial Spares								7510			4044		
Total								7510			4044		
Total					128621			131701			173822		

Exhibit P-5a, Budget Procu	rement History and Planning							Date: F	ebruary 2	.003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Systo	ет Туре:			tem Nomeno JNCHER (C030				
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 Issu Date
Launcher										
FY 2003	Lockheed Martin M.&F.C. Sys Dallas Texas	SS/FFP	AMCOM	Dec 02	Jun 04	28	3089	no		
FY 2004	Lockheed Martin M.&F.C. Sys Dallas Texas	SS/FFP	AMCOM	Dec 03	Jun 05	24	2767	no		
FY 2005	Lockheed Martin M.&F.C. Sys Dallas Texas	SS/FFP	AMCOM	Dec 04	Jun 06	37	2449	no		
	Suitas Toxas									

REMARKS: Sole Source - Lockheed Martin Missiles and Fire Control System (LMMFC) is currently the only industry source that is both facilitized and qualified to produce the HIMARS Launcher.

Note: Unit cost shown above reflects launcher costs only. HIMARS unit cost includes cost of carriers provided to LMMFC as GFE. Carrier unit costs follow: FY03(\$386k), FY04 (\$440k), FY05 (\$475k)

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		1	FY 08	A	58	0	58																									58
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Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2003		
Appropriation/Budget Acti Missile Procurement, Army /2,	•				P-1 Item Nom ARM		AL MSL SYS (A	ATACMS) - S	YS SUM (C98	3510)		
Program Elements for Code B Items:  Code: Other Related Program Elements:												
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	2199	100	24	16	50	50	50	66	66	66		2687
Gross Cost	1538.4	105.1	35.0	28.5	50.3	51.6	52.9	33.9	35.3	36.7		1967.7
Less PY Adv Proc	75.1											75.1
Plus CY Adv Proc	75.1											75.1
Net Proc (P-1)	1538.4	105.1	35.0	28.5	50.3	51.6	52.9	33.9	35.3	36.7		1967.7
Initial Spares	4.2											4.2
Total Proc Cost	1542.6	105.1	35.0	28.5	50.3	51.6	52.9	33.9	35.3	36.7		1971.9
Flyaway U/C												
Wpn Sys Proc U/C		1.1	1.5		1.0	1.0	1.1	0.5	0.5	0.6		

The Army Tactical Missile System (ATACMS) plays a critical role in supporting the Legacy Force Transformation to the Objective Force. ATACMS Block 1A is a ground-launched missile system consisting of a surface-to-surface guided missile with an anti-personnel, anti-materiel (APAM) warhead. The ATACMS Block IA Quick Reaction Unitary (QRU) integrates global positioning system (GPS) components and increases the range of the Block I missile. The QRU replaces the Block 1A APAM warhead with a Harpoon Warhead procured from the Navy. The inherent GPS accuracies will be achievable independent of range. ATACMS missiles are fired from the Multiple Launch Rocket System (MLRS) modified M270A1 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. ATACMS QRU 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:

FY04/FY05 funding procures 50 each year of the ATACMS Block 1A Quick Reaction Unitary (QRU) missiles. The ATACMS Block IA QRU 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 QRU is fired from the M270A1 launcher 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 QRU missile will destroy high value targets at ranges approximately twice that of the current Block I. The Block IA QRU will be especially suited for destroying enemy surface-to-surface missile system launchers.

In addition to the funding shown above, this budget line item received:

Non-add FY 2002 Defense Emergency Response Fund (DERF) Supplemental Funding (\$27.2M) for ATACMS Quick Reaction Unitary (QRU) Missile.

Exhibit P-5, Weapon MSLS Cost Analysis	А	Appropriation/B Missile Procure		ity/Serial No. / 2 / Other missiles			tem Nomenclature CTICAL MSL SYS (	e: (ATACMS) - SYS SU		Weapon System T	Type:	Date: Februa	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Missile Hardware - Recurring (BLK IA) Prime Contract		17580	24	733	17992	16	1125	36906	50	738	36494	50	730
DERF QRUs		9999						22.44					
Engineering Services Fielding		422 90			2436			3241 28			3532 29		
Ü					20.420								
SubTotal Missle Hardware		28091			20428			40175			40055		
Procurement Support		2071			1050			2500			27.40		
Project Management Production Engineering Support		2971 2231			1970 3804			2508 2879			2749 3437		
Test and Evaluation		1406			1562			1368			1551		
Subtotal Procurement Support		6608			7336			6755			7737		
Subtotal Frocurement Support		0000			7550			0/55			1131		
Total Missile Flyaway		34699			27764			46930			47792		
Command & Launch Hardware													
Command & Launch Integration Support		263			295			603			805		
Subtotal C & L Integration		263			295			603			805		
Support Costs													
Missile Test Device ATMF Test and Support Equipment					485			2250 518			2041 931		
ATMITTESt and Support Equipment								516			931		
Subtotal Support Cost					485			2768			2972		
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		34962			28544			50301			51569		

Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syste	ет Туре:		•	em Nomenc CAL MSL SYS	lature: (ATACMS) -SYS SI	UM (C98510	(	
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 Iss Date
Prime Contract										
FY 2002	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	MAR 02	FEB 03	24	733	Yes		Sep 9
FY 2003	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	MAR 03	MAR04	16	1125			
FY 2004	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	MAR 04	MAR 05	50	738			
FY 2005	Lockheed Martin Missiles Dallas, TX	SS/FFP	AMCOM	MAR 05	MAR 06	50	730			
	, ,									
EMARKS: Lockheed Martin is currently the ind	lustry source that is both facilitized and qualified	to produce the ATA	ACMS Block 1A missile and al	l variants.						

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		1	FY 04	A	50	0	50																									50
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AT/	CMS BLK 1A SLEP																															
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Arn	y TACMS BLK IA Msl																															
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Appropriation/Budget Activ Missile Procurement, Army /2/O	•					P-1 Item Nom ATA		II SYSTEM SUN	ИMARY (CA6	5101)		
Program Elements for Code	B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty	72	24										96
Gross Cost	381.6	205.4	40.6									627.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	381.6	205.4	40.6									627.6
Initial Spares		1.4	1.4									2.7
Total Proc Cost	381.6	206.7	42.0									630.3
Flyaway U/C					·							
Wpn Sys Proc U/C		8.6										

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 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. ATACMS Block II with BAT is the Army's only unmanned system with multimode sensors capable of attacking time critical, high value targets with large target location errors in near all weather conditions. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

#### Justification:

The ATACMS BLK II and P3I BAT programs have been terminated in order to fund Transformation and other higher priority Army programs. The ATACMS BLK II Missile System will use available funding to complete testing, delivery and fielding of assets previously purchased by the Government.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/B Missile Procure		vity/Serial No. / 2 / Other missiles			tem Nomenclatur BLKII SYSTEM SU	re: MMARY (CA6101)		Weapon System	Гуре:	Date: Febru	ary 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	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 ATACMS Block II Missile System (CA6101) Prime Contract (BLK II Missile CA6105)													
Prime Contract (BAT Submunition CA6100) ATACMS Penetrator Missile (CA6111)													
Flight Kits		760											
Engineering Services Facilitization		5188											
FDT Engineering Change Orders (ECOs)		42											
SubTotal Missle Hardware		5990											
Procurement Support		11455											
Project Management Production Engineering Support		11455 5460											
Test and Evaluation		14110											
Subtotal Procurement Support		31025											
Total Missile Flyaway Command & Launch Integration		37015											
Command & Launch Integration Support		240											
SubTotal C&L Hardware		240											
Support Costs Missile Test Device and Trainer Army Tac Msl Fac Test & Spt Equipment		3393											
SubTotal Support Costs		3393											
Initial Spares TOTAL		1355											
Total		42003											

	FY 02 / 03 BUDGET PI	ROD	UCTION	SCH	IEDUL!	E		P-1 I ATA					I SUI	MMAR <sup>*</sup>	Y (CA	<b>A</b> 6101)							Date:			Fel	oruary	2003			
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1	Lockheed Martin Missiles, Dallas, TX		8.00		12.00	24.00	21				RDER				0			0			0			0		4						
2	Lockheed Martin Missiles		10.00		38.00	48.00	15	2	2	INIT					0			1			11			12		-						
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Appropriation/Budget Activ Missile Procurement, Army /2/0	-					P-1 Item Nom ATA		ator (CA6111)				
Program Elements for Code	B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty						39	51	45	45			180
Gross Cost						68.5	87.9	99.6	99.4	4.9		360.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						68.5	87.9	99.6	99.4	4.9		360.3
Initial Spares												
Total Proc Cost						68.5	87.9	99.6	99.4	4.9		360.3
Flyaway U/C												
Wpn Sys Proc U/C						1.8	1.7	2.2	2.2			

The Army Tactical Missile System-Penetrator (ATACMS-P) is a standoff ballistic-missile-delivered penetrator weapon for use against fixed and deeply buried operational and tactical targets. ATACMS-P will complement current ATACMS Family of Munitions (AFOM) operational capabilities by adding the capability to attack and destroy Hardened and/or Deeply Buried Targets (HDBT) with a penetrator payload/warhead. These targets, considered High Value Targets (HVT), pose a considerable threat to U.S. and Coalition forces. The ATACMS-P missile provides the theater joint forces commander with all weather capability to defeat HDBTs with a standoff weapons system that eliminates the risk to aircrews required by existing air dropped penetrating weapons. Due to missile speed, the ATACMS-P provides time critical response in disrupting or neutralizing high value hard targets in support of the joint forces commanders maneuver warfare plans. ATACMS-P provides the land component commander a system that meets or exceeds the penetration capability of existing air dropped weapons. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

### Justification:

FY05 will procure 39 ATACMS-P Missiles. This missile provides the Army and Navy with a standoff ballistic-missile-delivered penetrator weapon for use in a counter-proliferation role against hard and deeply buried targets.

Exhibit P-5, Weapon MSLS Cost Analysis		Appropriation/I Missile Procu		rity/Serial No. /2/Other missiles			tem Nomenclatur Penetrator (CA6111)			Weapon System	Гуре:	Date: Februa	nry 2003
MSLS	ID		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
ATACMS Penetrator Missile (CA6111) Engineering Services Facilitization		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000 57056 2376 792		\$000 1463
Subtotal Missile Hardware											60224		
Procurement Support Project Management Production Engineering Support Test and Evaluation											3496 2728 594		
Subtotal Procurement Support											6818		
Total Missile Flyaway Command and Launch Integration											67042		
Command and Launch Integration Support											715		
Subtotal C&L Hardware											715		
Support Costs Missile Test Device and Trainer											736		
Subtotal Support Costs											736		
Total											68493		

Exhibit P-5a, Budget Procurement History	ory and Planning							Date: F	ebruary 20	003
Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles		Weapon Syster	n Type:			em Nomencl trator (CA6111)				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
	Dallas, TX	SS/FFP	АМСОМ	MAR-05	FEB-06	39	1463	No		
REMARKS: Lockheed Martin is currently the industry source	and is oom racinized and quantied to pre	Added the ATA	колия .							

	FY 05 / 06 BUDGET P	ROD	UCTION	SCH	IEDUL:	E			Item N				111)										]	Date:			Fel	ruary	2003			
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	COST ELEMENTS	M F R	FY	S E R V	QTY Units	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
AT	ACMS Penetrator Missile (CA6111)																									+			╁	+		
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R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+			INIT	TAL				0			1			11			12								
1	Lockheed Martin Missiles, Dallas, TX		10.00		38.00	48.00	15	,	1	REO	RDER				0			1			11			12		1						
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Appropriation/Budget Act Missile Procurement, Army /3	•	siles				P-1 Item Nom PAT	enclature RIOT MODS	S (C50700)				
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program Ele	ements:	PATRIOT I	Modification I	nitial Spares, C	CA0267	
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	473.9	24.0	24.8	148.7	212.6	86.1	75.4	77.5	71.9	41.9		1236.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	473.9	24.0	24.8	148.7	212.6	86.1	75.4	77.5	71.9	41.9		1236.8
Initial Spares	60.9	2.6	0.7	39.9	32.1	14.8	14.8	9.6	9.0	8.1		192.6
Total Proc Cost	534.8	26.7	25.5	188.6	244.6	100.9	90.3	87.1	80.9	50.0		1429.4
Flyaway U/C												
Wpn Sys Proc U/C				·								

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:**

FY04/05 procures the planned system Growth Program which will add hardware enhancements/improvements to the total PATRIOT Weapon System as well as recapitalization to ensure operational readiness and a zero time/zero mile system.

Exhibit P-40M,	Budget Item Justifica	ation Sheet				Date	e:	F	ebruary 2003		
Appropriation/Budget Activi Missile Procurement, Arm	ity/Serial No: ny /3/Modification of missiles				P-1 Item Nomeno	lature	PATRIOT MO	DDS (C50700)			
Program Elements for Code	B Items:		Code:	Other Related	Program Elements:		PATRIOT Mod	ification Initial Sp	ares, CA0267		
Description	_	Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
RLCEU											
1-92-03-1233-00-0000		53.4	22.5	43.3	10.8	0.0	0.0	0.0	0.0	0.0	130.0
Integrated Diagnostic Sup	pport System										
1-97-03-1244		12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
BCP (Link 16/JTIDS)											
1-97-03-1246		11.2	13.8	19.1	7.3	0.0	0.0	0.0	0.0	0.0	51.4
Tactical Command System	m										
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		27.0	10.7	11.5	23.1	20.9	38.1	51.0	27.3	0.0	209.6
Radar Phase III											
1-89-03-1231		0.0	43.7	65.6	0.0	0.0	0.0	0.0	0.0	0.0	109.3
CDI Phase III											
1-92-03-1238		0.0	17.0	25.5	0.0	0.0	0.0	0.0	0.0	0.0	42.5
TCS (TIBS/IBS, FO, C4I,	, NMNG)										
1-01-01-1251		0.0	14.3	11.4	11.3	9.1	9.8	0.0	0.0	0.0	55.9
Recapitalization											
1-01-01-1252		0.0	26.6	36.3	33.6	45.4	29.6	20.9	14.5	0.0	206.9
Totals		107.0	148.6	212.7	86.1	75.4	77.5	71.9	41.8	0.0	821.0

Date:

February 2003

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

MODELS OF SYSTEM AFFECTED: Information Coordination Central (ICC), Engagement Control Station (ECS), Commo Relay Group (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, requirements for interoperability and communications are satisfied by this effort.

	Prior	FY02	FY	03	FY	04	FY05
CRG	22	4	5	13	3	1	
<b>ECS</b>	39	6	8	10	1	3	
ICC	12	1			1		

RLCEU Financial Plan reflects total quantity (ECS/ICC/CRG).

#### 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:

Inputs	
Outputs	

Inputs Outputs

Pr Yr		FY 2	2003			FY 2	2004			FY 2	005			FY 2	006			FY	2007	
Totals	1	2	3	4	. 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
58	5	5	5		3	3	3	2	4	4	4	1	6	6	6	5	5			
58		5	5	5		3	3	3	2	4	4	4	1	6	6	6	5	5		

	FY:	2008			FY	2009			FY 2	2010			FY 2	2011		To	Totals
1	2	3	4	1	2	. 3	4	1	2	3	4	1	2	3	4	Complete	
																	125
						'											125

METHOD OF IMPLEMENTATION:			ADMINISTRATIV	/E LEADTII	ME:	3 Months	PRODUC	TION LE	EADTIM	E:	24 Months
Contract Dates:	FY 2004	Dec 03	]	FY 2005	Dec 04		FY 2006				

Delivery Date: FY 2004 Dec 05 FY 2005 Dec 06 FY 2006

Date:

February 2003

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

	FY:	2002																		
	and l	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY 2	2009	T	C	ТОТ	AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	84	48.5	13	20.5	23	39.4	5	9.8											125	118.2
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	84	4.9																	84	4.9
FY2003 Equip Kits			13	2.0															13	2.0
FY2004 Equip Kits					23	3.9													23	3.9
FY2005 Equip Kits							5	1.0											5	1.0
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
TC Equip- Kits																				
m . IX II	0.1	1.0	1.0	2.6	2.5	2.6		1.6		0.6		0.6		0.6		0.0		0.6	105	11.0
Total Installment	84	4.9	13	2.0	23	3.9	5	1.0		0.0		0.0		0.0		0.0		0.0	125	11.8
Total Procurement Cost		53.4		22.5		43.3		10.8		0.0		0.0		0.0		0.0		0.0		130.0

Triputs   Trip						INDIVIDUAL	MODIFIC	ATION			D	ate:	February	2003	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:    Institution Schedule:	MODIFICATION TITLE:	Integrated D	iagnostic Suppo	ort System [MOD	2] 1-97-03-1244										
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 STATUSMAJOR DEVELOPMENT MILESTONES:	MODELS OF SYSTEM A	FFECTED:													
DEVELOPMENT STATUSMAJOR DEVELOPMENT MILESTONES:   Major milestones not applicable:   Pr Yr	DESCRIPTION/JUSTIFIC	'ATION:													
Major milestones not applicable.  Installation Schedule:    Pr Yr											ch Manua	ls (TM)	and expert sy	stems. D	igital
Pr Yr	DEVELOPMENT STATU	S/MAJOR DI	EVELOPMENT	Γ MILESTONES:											
Pr Yr	Major milestones not	applicable													
Pr Yr															
Totals	Installation Schedule:	D. W.	EW 6	2002	EX	7 2004		EV 20	.O.5		EV 20	0.6		EX 200	7
Inputs		_	1 2				4 1	FY 20		4 1	FY 20		4 1	FY 200	2 1
Outputs	Inputs		1 2	3 4	1 .	2 3	4 1	2	3	4 1	2	3	4 1	۷	3 4
Triputs   Trip															
Triputs   Trip															
Inputs			FY 2008				FY 2	2010		FY	2011				Totals
Outputs	_	1	2 3	4 1	. 2 :	3 4	1 2	3	4	1 2	3	4	Complete		
															19 19
METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 9 Months		JT A TION:			A DMINISTD A T	IVE I EADTIME:		2 Months		DD OD U	TION LE	DTIME	9 Months		17
Contract Dates: FY 2004 FY 2005 FY 2006		TATION.	FY 2004		ADMINISTRAT			J MOHUIS				ADTHAID;	2 MOHUIS		
Delivery Date: FY 2004 FY 2005 FY 2006	Delivery Date:		FY 2004			FY 2005				FY 2006					

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Date:

February 2003

MODIFICATION TITLE (Cont): Integrated Diagnostic Support System [MOD 2] 1-97-03-1244

	and F																			
		Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY 2	2009	T	C	ТОТ	ΊΑL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	19	12.2																	19	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	0																			
FY2002 & Prior Equip Kits	19	0.7																		0.7
FY2003 Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
TC Equip- Kits																				
l																				
Total Installment	19	0.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.7
Total Procurement Cost		12.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		12.9

Date:

February 2003

MODIFICATION TITLE: BCP (Link 16/JTIDS) [MOD 3] 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.

PRIOR FY 03 FY 04 FY 05 FY 06 Total Full-up 23 20 15 58 10 Retro 14 24 5 Dismounted 1 6 **TOTAL** 24 20 34 10 88

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Major milestones are not applicable.

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

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2003			FY:	2004			FY	2005			FY 2	2006			FY 2	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
15	3	3	2	1	5	5	5	5	9	9	8	8	5	5						
14	1	3	3	2	1	5	5	5	5	9	9	8	8	5	5					

	FY 2	2008			FY 2	2009			FY 2	2010			FY 2	2011		To	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	88

METHOD OF IMPLEMENTATION:			ADMINISTRATIVE LEADTIM		6 Months	PRODUCTION LEADTIME:	6 Months
Contract Dates:	FY 2004	Apr 04	FY 2005	Apr 05		FY 2006	

Delivery Date: FY 2004 Oct 04 FY 2005 Oct 04 FY 2006

Date:

February 2003

MODIFICATION TITLE (Cont): BCP (Link 16/JTIDS) [MOD 3] 1-97-03-1246

FINANCIAL PLAN: (\$ in Millions)

1	FY 2	2002																		
	and l	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY :	2009	Т	C	ТОТ	ΓAL
1	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	24	10.0	20	12.3	34	17.0	10	6.5											88	45.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	24	1.2	• 0																24	1.2
FY2003 Equip Kits			20	1.5															20	1.5
FY2004 Equip Kits					34	2.1	10	0.0											34	2.1
FY2005 Equip Kits							10	0.8											10	0.8
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits FY2009 Equip Kits																				
TC Equip- Kits																				
1																				
,																				
Total Installment	24	1.2	20	1.5	34	2.1	10	0.8		0.0		0.0		0.0		0.0		0.0	88	5.6
Total Procurement Cost		11.2		13.8		19.1		7.3		0.0		0.0		0.0		0.0		0.0		51.4

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								INDIVI	DUAL M	ODIFIC	ATION					Date:		February	2003		
MODIFICATION TITLE:	Tactical Co	mmand	System [	MOD 4] 1	-98-03-1	251															
MODELS OF SYSTEM A	FFECTED:																				
DESCRIPTION/JUSTIFIC	'ATION:																				
Provides for a modifi	cation/int	egratio	n of the	e existin	g Tacti	cal Con	nmand S	System	shelters	to integ	rate CH	S-2 con	nputers								
DEVELOPMENT STATU	S/MAJOR D	DEVELO	PMENT	MILEST	ONES:																
Major milestones are	not applic	cable.																			
Installation Schedule:																					
	Pr Yr Totals	1	FY 2 2	003	4	1	FY 2	2004	4	1	FY 2	005	4	1	FY 2	2006	4	1	FY 2	.007	4
Inputs	15	1	2	3	4	1	۷	3	4	1	۷	3	4	1	2	3	4	1	۷	3	4
Outputs	15																				
		FY 20	200			FY 2	1000			FY 2	010			FY 2	011			To			Totals
	1	2	3	4	1	FY 2	3	4	1	FY 2	3	4	1	FY 2	3	4		To Complete			1 otais
Inputs																		·			15
Outputs																					15
METHOD OF IMPLEMENT Contract Dates:	NTATION:	F	Y 2004		A	ADMINI	STRATIV I	'E LEAD' FY 2005	TIME:	3	8 Months			PRODUC FY 2006	TION L	EADTIM	E:	6 Months			
Delivery Date:			Y 2004					FY 2005						FY 2006							

Date:

February 2003

MODIFICATION TITLE (Cont): Tactical Command System [MOD 4] 1-98-03-1251

	•	2002																		
	and l			2003		2004	FY:		FY 2		FY 2		FY 2			2009	T		TOT	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	15	2.4																	15	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	0																			
FY2002 & Prior Equip Kits	15	0.1																		0.1
FY2003 Equip Kits																				
FY2004 Equip Kits																				
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 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

								INDIVI	DUAL M	ODIFIC	ATION					Date:	]	February	2003		
MODIFICATION TITLE:	RAM MO	ODS [MC	DD 5] 1-98	3-03-1249																	
MODELS OF SYSTEM A	FFECTE	): Radar,	ECS, ICC	C, LS, BM	IE, BMG,	CRG															
DESCRIPTION/JUSTIFIC	CATION:																				
This modification pr this Materiel Change Maintenance Equipn installation of retrofi	involve nent/Gro	improv up (BM	ements	to the R	adar, E municat	ngagem ions Re	ent Cor lay Gro	ntrol Sta oup (CR	ation (E G) and	CS), Int ISE/PF	formation	on and (nop Sets	Coordin . The p	ation Courpose	entral (I	CĈ), La	unching	Station	ı (LS), Ba	attalion	
DEVELOPMENT STATU			OPMENT	MILEST	ONES:																
Installation Schedule:							****					•00=				• • • • •				-	
	Pr Yr Totals	1	FY 2 2	3	4	1	FY 2	2004	4	1	FY :	2005	1	1	FY 2	2006	1	1	FY 20 2	3	4
Inputs	1240	60	60	91	91	91	90	66	66	66	66		138	138				124	124	228	227
Outputs	1179	61	60	60	91	91	91	90	66	66	66	66	139	138	138	138	125	125	124	124	228
	,	FY 2	2008	4	1	FY 2		4	1	FY 2	2010	4	1	FY 2	2011	4		To			Totals
Inputs	227	2 227	305	305	304	304	3 164	4 163	163	163	3	4	1		3	4	C	omplete			5818
Outputs	227	227	227	305	305	304	304	164	163	163	163										5818

Contract Dates:

Delivery Date:

METHOD OF IMPLEMENTATION:

Dec 04

Jun 05

6 Months

ADMINISTRATIVE LEADTIME:

FY 2005

FY 2005

Dec 03

Jun 04

FY 2004

FY 2004

6 Months

PRODUCTION LEADTIME:

Dec 05

Jun 06

FY 2006

FY 2006

Date:

February 2003

MODIFICATION TITLE (Cont): RAM MODS [MOD 5] 1-98-03-1249

FINANCIAL PLAN: (\$ in Millions)

	FY	2002																		
	and	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY 2	2009	T	C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	1360	24.4	363	9.5	264	10.1	553	20.6	498	18.6	909	33.9	1218	45.4	653	24.3			5818	186.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	1360	2.6																	1360	2.6
FY2003 Equip Kits			363	1.2															363	1.2
FY2004 Equip Kits					264	1.4													264	1.4
FY2005 Equip Kits							553	2.5											553	2.5
FY2006 Equip Kits									498	2.3									498	2.3
FY2007 Equip Kits											909	4.2							909	4.2
FY2008 Equip Kits													1218	5.6					1218	5.6
FY2009 Equip Kits															653	3.0			653	3.0
TC Equip- Kits																				
Total Installment	1360	2.6	363	1.2	264	1.4	553	2.5	498	2.3	909	4.2	1218	5.6	653	3.0		0.0	5818	22.8
Total Procurement Cost		27.0		10.7		11.5		23.1		20.9		38.1		51.0		27.3		0.0		209.6
1 our 1 rocurement Cost		27.0		10.7		11.5		4.1.1		20.7		50.1		51.0		21.3		0.0		207.0

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Date:

February 2003

MODIFICATION TITLE: Radar Phase III [MOD 6] 1-89-03-1231

MODELS OF SYSTEM AFFECTED: Radar

### DESCRIPTION/JUSTIFICATION:

The objective of this modification is to increase the average power providing greater multifunction capability and increase the reliability and maintainability of the radar. Transmitter and receiver modifications will be made to the radar.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Planned Accomplished

Preliminary Design Review 2QFY92 2QFY92
Critical Design Review (CDR) 3QFY93 3QFY93
Contractor Test and Evaluation (CDE) 4QFY99 1QFY00
Development Test and Evaluation (DTE) 1QFY00
Initial Operational Test and Evaluation (IOTE) 2QFY02 2QFY02

		_			
Inctal	llati	on S	che	dul	e.

Inputs	
Outputs	

Inputs Outputs

Pr Yr		FY	2003			FY:	2004			FY	2005			FY	2006			FY 2	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
0									1	1	1	1	1	2	1	2				
0										1	1	1	1	1	2	1	2			

	FY 2	2008			FY	2009			FY 2	2010			FY 2	2011		To	Totals
1	2	3	4	. 1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	10
																	10

METHOD OF IMPLEMENTATION:			ADMINISTRATIVE LEADTIME:	5 Months	PRODUCTION LEADTIME:	24 Months
Contract Dates:	FY 2004	Dec 03	FY 2005		FY 2006	

Delivery Date: FY 2004 Nov 05 FY 2005 FY 2006

Date:

February 2003

MODIFICATION TITLE (Cont): Radar Phase III [MOD 6] 1-89-03-1231

	FY :	2002																		
	and l	Prior	FY 2	2003	FY:	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY :	2009	Т	C	ТОТ	`AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity			4	38.5	6	57.7													10	96.2
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits			4	5.2															4	5.2
FY2004 Equip Kits					6	7.9													6	7.9
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	4	5.2	6	7.9		0.0		0.0		0.0		0.0		0.0		0.0	10	13.1
Total Procurement Cost		0.0		43.7		65.6		0.0		0.0		0.0		0.0		0.0		0.0		109.3

INDIVIDITAL	IDITAL MODIFICATION

Date:

February 2003

MODIFICATION TITLE: CDI Phase III [MOD 7] 1-92-03-1238

MODELS OF SYSTEM AFFECTED: Radar

### DESCRIPTION/JUSTIFICATION:

CDI III involves the integration of state-of-the-art High Range Resolution (HRR) technology into the PATRIOT radar. This capability will provide for Tactical Ballistic Missile (TBM)/debris discrimination and categorization of Air Breathing Targets (ABT).

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Planned Accomplished

Preliminary Design Review 2QFY92 2QFY92
Critical Design Review (CDR) 3QFY93 3QFY93
Contractor Test and Evaluation (CDE) 4QFY99 1QFY00
Development Test and Evaluation (DTE) 1QFY00 1QFY00
Initial Operational Test and Evaluation (IOTE) 2QFY02 2QFY02

-		~ .	
Ineta	llation	n Sch	edule:

Inputs	
Outputs	

Inputs Outputs

Pr Yr		FY 2	2003			FY 2	2004			FY	2005			FY	2006			FY	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
0									1	1	1	1	1	2	1	2				
0										1	1	1	1	1	2	1	2			

Totals	То		2011	FY 2			2010	FY 2			2009	FY :			2008	FY 2	
	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
10																	
10																	

METHOD OF IMPLEMENTATION:			ADMINISTRATIVE LEADTIME:	5 Months	PRODUCTION LEADTIME:	24 Months
Contract Dates:	FY 2004	Dec 03	FY 2005		FY 2006	

Delivery Date: FY 2004 Nov 05 FY 2005 FY 2006

Date:

February 2003

MODIFICATION TITLE (Cont): CDI Phase III [MOD 7] 1-92-03-1238

	FY	2002																		
		Prior	FY:	2003	FY 2	2004	FY :	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY	2009	Т	C	TOT	TAL.
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity			4	15.0	6	22.4													10	37.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits			4	2.0															4	2.0
FY2004 Equip Kits					6	3.1													6	3.1
FY2005 Equip Kits																				
FY2006 Equip Kits																				
FY2007 Equip Kits																				
FY2008 Equip Kits																				
FY2009 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	4	2.0	6	3.1		0.0		0.0		0.0		0.0		0.0		0.0	10	5.1
Total Procurement Cost		0.0		17.0		25.5		0.0		0.0		0.0		0.0		0.0		0.0		42.5

					INDIVIDUAL I	MODIFICATION			Date:	February 2	2003	
MODIFICATION TITLE:	TCS (TIBS/I	BS, FO, C4I, N	MNG) [MOD 8] 1	1-01-01-1251								
MODELS OF SYSTEM A	FFECTED:											
DESCRIPTION/JUSTIFIC	CATION:											
Provides for impleme includes integration of						es and Integrated	Broadcast Ser	rvice (IBS)	HW and SW at	the PATRIO	OT BN. Th	nis
DEVELOPMENT STATU	S/MAJOR DE	EVELOPMENT	MILESTONES:									
Major milestones are	not applica	ble.										
Installation Schedule:												
	Pr Yr	FY 2		FY 2		FY 20		]	FY 2006		FY 2007	
In much	Totals	1 2	3 4	1 2	3 4	1 2	3 4	1	2 3	4 1	2	3 4
Inputs Outputs	0			3	5 5 5	5	4 4 4		1 2 1	2	3	3 3
		'						<u> </u>				
		FY 2008		FY 2009		FY 2010		FY 2011		То		Totals
Inputs	1	2 3 4 3	4 1	2 3	4 1	2 3	4 1	2	3 4	Complete		34
Outputs		4 3	3									34 34
METHOD OF IMPLEMEN	NTATION:			ADMINISTRATIV	E LEADTIME:	33 Months		PRODUCTIO	N LEADTIME:	12 Months	5	
Contract Dates:		FY 2004	Mar 04			ar 05			Mar 06			
Delivery Date:		FY 2004	Mar 05	F	FY 2005 M	ar 06	]	FY 2006	Mar 07			

Date:

February 2003

MODIFICATION TITLE (Cont): TCS (TIBS/IBS, FO, C4I, NMNG) [MOD 8] 1-01-01-1251

FINANCIAL PLAN: (\$ in Millions)

	FY 2	2002																		
	and l	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY:	2009	Т	C	ТОТ	CAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity			10	12.4	8	9.9	3	10.0	6	7.9	7	8.5							34	48.7
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware	0																			
FY2002 & Prior Equip Kits																				
FY2003 Equip Kits			10	1.9															10	1.9
FY2004 Equip Kits					5	1.5													5	1.5
FY2005 Equip Kits							3	1.3											3	1.3
FY2006 Equip Kits									6	1.2									6	1.2
FY2007 Equip Kits											7	1.3							7	1.3
FY2008 Equip Kits																				
FY2009 Equip Kits																				
TC Equip- Kits																				
10 Equip Titus																				
Total Installment	0	0.0	10	1.9	5	1.5	3	1.3	6	1.2	7	1.3		0.0		0.0		0.0	31	7.2
Total Procurement Cost		0.0		14.3		11.4		11.3		9.1		9.8		0.0		0.0		0.0		55.9

Item No. 21 Page 18 of 20 145 Exhibit P-3a Individual Modification

MODIFICATION TITLE   Recapitalization   MODE   9   1-0   -01-1252								ite:	Fe	bruary 2	003										
MODIFICATION TITLE:	Recapital	ization [l	MOD 9] 1	-01-01-125	52																
MODELS OF SYSTEM A	FFECTEI	D: ECS, l	CC, LS,C	CRG																	
DESCRIPTION/JUSTIFIC	ATION:																				
Rebuild and selected	upgrade	of fiel	ded syst	tems to e	nsure o	operatio	nal reac	liness ar	nd a zero	time/z	ero mile	system	ı. Progr	am plar	is to rec	ap one	battalio	n per ye	ear.		
DEVELOPMENT STATU	S/MAJOR	DEVEL	OPMEN.	T MILEST	ONES:																
Major milestones not	applical	ble.																			
Installation Schedule:																					
	FICATION TITLE Recapitalization (MOD 9) 1-01-01-252  2.5 OF SYSTEM AFFECTED: ECS, ICC, LS, CRG  REPTION/JUSTIFICATION:  ilid and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  ILIDAMENT STATUS/MAJOR DEVELOPMENT MILESTONES:  Translestones not applicable.    Pry   Pry																				
Inputs	1 otais 0	1	2	3	4	1	1	3	4	1	1	3	4	1	1	3	4	1	1	3	4
	0								1				1				1				1
		<b>T</b>	2000			F77.0	.000			FW. 6	1010			F77.0	011						m 1
	1			4	1	FY 2		4	1			4	1	FY 2		4	Cor				Totals
Inputs	_	1			-	1	J		-	_			-	_				8			14
				1				1										8			14
	NTATION		FY 2004	Me		ADMINIS					3 Months						12	Months			
	EXPLICATION TITLE: Recupitalization [MOD 9] 1-01-01-1252  EX OF SYSTEM AFFECTED: ECS, ICC, LS, CRG  EPTON/JOSTHE/CATION:  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.  Id and selected upgrade of fielded systems to ensure operational readiness and a zero time/zero mile system. Program plan is to recap one battalion per year.																				

Date:

February 2003

MODIFICATION TITLE (Cont): Recapitalization [MOD 9] 1-01-01-1252

	FY :	2002																		
	and l	Prior	FY :	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY 2	2009	Т	C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	0		1	24.2	1	33.0	1	30.6	1	41.3	1	26.9	1	19.0	1	13.2			7	188.2
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0		1	2.4															1	2.4
FY2004 Equip Kits	0				1	3.3													1	3.3
FY2005 Equip Kits	0						1	3.0											1	3.0
FY2006 Equip Kits	0								1	4.1									1	4.1
FY2007 Equip Kits	0										1	2.7							1	2.7
FY2008 Equip Kits	0												1	1.9					1	1.9
FY2009 Equip Kits	0														1	1.3			1	1.3
TC Equip- Kits	0																			
Total Installment	0	0.0	1	2.4	1	3.3	1	3.0	1	4.1	1	2.7	1	1.9	1	1.3		0.0	7	18.7
Total Procurement Cost		0.0		26.6		36.3		33.6		45.4		29.6		20.9		14.5		0.0		206.9

Ex	hibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Β.	ite:	I	February 2003		
Appropriation/Budget A Missile Procurement, Army		siles				P-1 Item Non	nenclature NGER MODS	S (C20000)				
Program Elements for C	ode B Items:			Code:	Other Relat	ed Program El	ements:	C14900, C1	.6000			
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	124.7	33.0	5.8	1.5	1.0							165.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	124.7	33.0	5.8	1.5	1.0							165.9
Initial Spares												
Total Proc Cost	124.7	33.0	5.8	1.5	1.0							165.9
Flyaway U/C												
Wpn Sys Proc U/C												

### **Description:**

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:**

FY04/05 funds upgrade Stinger firing platforms to launch Block I missiles. The Stinger Block I program corrects deficiencies in precision engagements and information dominance 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.

Ex	hibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	I	February 2003		
Appropriation/Budget Ao Missile Procurement, Army	•	siles				P-1 Item Non STI		UPGRADES (	C21300)			
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program El	ements:	C14900, C	16000			
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	123.2	33.0	5.8	1.5	1.0							164.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	123.2	33.0	5.8	1.5	1.0							164.4
Initial Spares												
Total Proc Cost	123.2	33.0	5.8	1.5	1.0							164.4
Flyaway U/C												
Wpn Sys Proc U/C												

### **Description:**

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

#### Justification:

FY04 funds upgrade Stinger firing platforms to launch Block I missiles. The Stinger Block I program corrects deficiencies in precision engagements and information dominance 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.

	, Budget Item Justific				D. I. I. N.	1 .		F	ebruary 2003		
Appropriation/Budget Acti Missile Procurement, A	ivity/Serial No: .rmy /3/Modification of missiles				P-1 Item Nomeno	lature	STINGER BL	K I UPGRADES (	C21300)		
Program Elements for Cod	le B Items:		Code:	Other Related F	Program Elements:		C14900, C1600	0			
Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Stinger Block I Platform	u Upgrades (C21300)										
01-87-03-1510	Operational	14.2	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
Stinger Block I Missile	Upgrades (C21300)										
01-87-03-1510	Operational	138.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.9
Stinger Troop Proficien	cy Trainer										
TBP	Operational	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
Linebacker Training De	evices										
TBP	Operational	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Totals		162.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	164.5

								INDIVI	DUAL M	ODIFIC	ATION				Ι	Date:	I	February 2	2003		
MODIFICATION TITLE:	Stinger I	Block I Pla	ıtform Up	ogrades (C	21300) [1	MOD 1] (	01-87-03-	1510													
MODELS OF SYSTEM A	FFECTE	D: Manpa	ıds, Aven	ger, Bradl	ey Lineba	acker, Kio	owa Warr	ior													
DESCRIPTION/JUSTIFIC	CATION:																				
In order to take adva Memory (EEPROM) assemblies must be p same as Stinger-RMI	Module rocured	es must l l and ins	be proc talled in	ured and n each s	l install ystem's	ed in ex Interfac	isting, f	ielded gronics A	gripstocl Assembl	ks. For	Air-to-	Air Stin	ger, Bra	adley Li	nebacke	r, and A	venger.	r, new Å	-1 circuit	card	•
ROM Modules are in	stalled l	by gove	rnment	employ	ees; A-	1 circuit	t card as	semblie	es are in	stalled	by contr	actors.									
DEVELOPMENT STATU	S/MAJOI	R DEVEL	OPMEN'	T MILES	TONES:																
Development was co	mpleted	l in 1997	7																		
Development was eo	приссе		•																		
Installation Schedule:																					
	Pr Yr		FY 2	2003				2004			FY 2	2005			FY 2	006			FY 200	17	
_	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	6385 5080		192	192	192	194	195	106	108												
Outputs	3080	120	192	192	192	194	193	100	108												
		FY 2	2008			FY :	2009			FY 2	2010			FY 2	2011			To			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	Complete			
Inputs																					6385

METHOD OF IMPLEMENTATION:

Contractor & In-House

Jan 04

Aug 04

FY 2004

FY 2004

Outputs

Contract Dates:

Delivery Date:

4 Months

ADMINISTRATIVE LEADTIME:

FY 2005

FY 2005

7 Months

PRODUCTION LEADTIME:

FY 2006

FY 2006

6385

Date:

February 2003

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

And Prior   FY 2003   FY 2004   FY 2005   FY 2006	006 FY 2007 \$ Qty \$	FY 2008 Qty \$	FY 2009 Qty \$	TC Qty \$	TOTAL Qty \$
RDT&E         0           Procurement         0           Kit Quantity         6385           Installation Kits         0           Installation Kits, Nonrecurring         0           Equipment         0	\$ Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
Procurement 0					
Kit Quantity 6385 13.0  Installation Kits 0  Installation Kits, Nonrecurring 0  Equipment 0					
Installation Kits 0 Installation Kits, Nonrecurring 0 Equipment 0				I I	
Installation Kits, Nonrecurring 0 Equipment 0					6385 13.0
Equipment 0					
Favigue at Nagarannia					
Equipment, Nonrecurring 0					
Engineering Change Orders 0					
Data 0					
Training Equipment 0					
Support Equipment 0					
Other 0					
Interim Contractor Support 0					
Installation of Hardware 0					
FY2002 & Prior Equip Kits 5080 1.2					5080 1.2
FY2003 Equip Kits 0 702 1.5					702 1.5
FY2004 Equip Kits 0 603 1.0					603 1.0
FY2005 Equip Kits 0					
FY2006 Equip Kits 0					
FY2007 Equip Kits 0					
FY2008 Equip Kits 0					
FY2009 Equip Kits 0					
TC Equip- Kits 0					
Total Installment 5080 1.2 702 1.5 603 1.0 0.0	0.0	0.0	0.0	0.0	6385 3.7
Total Procurement Cost         14.2         1.5         1.0         0.0	0.0	0.0	0.0	0.0	16.7

Date:

February 2003

MODIFICATION TITLE: Stinger Block I Missile Upgrades (C21300) [MOD 2] 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 nighttime 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 material 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 installations costs are included in the contract price for retrofits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development was completed in 1997.

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2003			FY:	2004			FY:	2005			FY:	2006			FY	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
8021																				
6801	284	343	357	236																

	FY 2	2008			FY	2009			FY 2	2010			FY :	2011		To	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	8021

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 4 Months
Contract Dates: FY 2004 FY 2005 FY 2006

Delivery Date: FY 2004 FY 2005 FY 2006

8021

Date:

February 2003

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

		2002																		
		Prior		2003	FY 2			2009	T		TOT									
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																		00.	4000
Kit Quantity	8021	138.9																	8021	138.9
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
1 1																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		138.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		138.9

Date:

February 2003

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

MODELS OF SYSTEM AFFECTED:

### DESCRIPTION/JUSTIFICATION:

The Stinger Troop Proficiency Trainer (STPT) is the primary gunnery trainer for Stinger gunners and it is the only filed 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, improve 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 provided by the contractor.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

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

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2003			FY:	2004			FY	2005			FY:	2006			FY	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
14	6	18	20	21	21															
3	5	6	6	18	20	21	21													

	FY 2	2008				FY	2009			FY:	2010			FY	2011		To	Totals
1	2	:	3	4	1	2	3	4	1	2	3	4	1	. 2	2 3	4	Complete	
																		100

METHOD OF IMPLEMENTATION:	Contractor		ADMINISTRATIVE LEADTIME:	2 Months	PRODUCTION LEADTIME:	9 Months
Contract Dates:	FY 2004	Nov 01	FY 2005		FY 2006	
Delivery Date:	FY 2004	Aug 02	FY 2005		FY 2006	

Date:

February 2003

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

		2002																		
	and l			2003		2004	FY 2		FY 2		FY 2		FY 2			2009	Т		TOT	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	100	3.1																	100	3.1
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
1.1																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost	~	3.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		3.1

INDIVIDUAL MODIFICATION	

Date:

February 2003

MODIFICATION TITLE: Linebacker Training Devices [MOD 4] TBP

MODELS OF SYSTEM AFFECTED:

### 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. The Director of Training and doctrine, USAADASH on 9 Jan 2001, modified training device requirements.

Hardware, software, and installation are included in the total contract price 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.

Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2003			FY 2	2004			FY:	2005			FY:	2006			FY	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
49	9	9	9	12																
24	12	13	9	9	9	12														

	FY 2	2008			FY	2009			FY 2	2010			FY 2	2011		To	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	88
							1										

_									_
METHOD OF IMPLEMENTATION:	Contractor		ADMINISTRATIVE L		Months	PRODUCTION L	EADTIME:	6 Months	
Contract Dates:	FY 2004	Jan 02	FY 2	2005		FY 2006			
Delivery Date:	FY 2004	Jul 02	FY 2	2005		FY 2006			

Date:

February 2003

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

	FY 2						_											_	_	
	and l			2003	FY 2			C	ТОТ											
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	88	5.8																	88	5.8
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		5.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		5.8

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Г	ate:	I	February 2003		
Appropriation/Budget Act Missile Procurement, Army /3	•	siles				P-1 Item Non AVI		DS (CE8710)				
Program Elements for Coo	de B Items:			Code:	Other Relat	ed Program El	ements:	C14900, C1	16000			
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	39.1	6.8	1.9									47.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.1	6.8	1.9									47.8
Initial Spares	1.0											1.0
Total Proc Cost	40.2	6.8	1.9									48.8
Flyaway U/C												
Wpn Sys Proc U/C												

### **Description:**

AVENGER is a highly mobile, Stinger missile based, Short Range Air Defense system capable of day, night, adverse weather and shoot on-the-move for precision engagement operations. It provides Division and Corps units with low altitude air defense/information dominance 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. 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:

FY02 funds were used to field remaining 101 Slue-to-Cue Kits and procure and field 71 Environmental Control Unit/Prime Power Units (ECU/PPU). The ECU/PPU is required to eliminate a turrent heat stress safety issue.

Exhibit P-40M,	Budget Item Justific	ation Sheet				Dat	e:	F	ebruary 2003		
Appropriation/Budget Activ Missile Procurement, Ar	vity/Serial No: rmy /3/Modification of missiles				P-1 Item Nomeno	elature	AVENGER M	IODS (CE8710)			
Program Elements for Code	e B Items:		Code:	Other Related	Program Elements:		C14900, C1600	00			
Description	_	Fiscal Years	•								
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Slew-To-Cue (STC)											
TBD	Operational	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
Environmental Control U	Jnit/Prime Power Unit										
01-88-03-1515	Safety	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9
Totals		47.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.8

								INDIV	DUAL M	40DIFIC	CATION					Date:		February	2003		
MODIFICATION TITLE:	Slew-To-	-Cue (ST	C) [MOD	1] TBD																	
MODELS OF SYSTEM A	FFECTE	D:																			
DESCRIPTION/JUSTIFIC	CATION:																				
Slew-to-Cue (STC) proceedings field of view Fire Control Comput improved AVT capal STC/CFCC/AVT: Sand cruise missiles. components and improperational Capability	v. This ser (CFC) bility into TC is an It will into the controller.	speeds of C) that to the C in Army of the C in C in Army of the C in Army	engagen replace FCC. T categor be fielde cc. It w	nents are sthe ex. The AV'  y 2 digited as payill results.	id increatisting of aids that the tization art of the lt in 50%	ases kill bsolete : ne gunno initiativ First D	s by eli fire con er by pr ve that i	minatin trol. Th oviding ncrease l Corps,	g time conis upgran auto	consumi ade also omatic to n perfor the rem	ing man replace racking mance/haining	ual sear es the ex capabil kills aga force. (	ches. Taxisting of ity.  ainst all CFCC/A	targets,	Autom especia	ity will atic Vid	be emb leo Trac observa	edded i ker (AV ble thre	nto a ne VT) by 6 eats such critical	w Commembeddi an as UA obsolet	mon ing an Vs
DEVELOPMENT STATU	S/MAJOF	R DEVEL	OPMEN'	T MILES	TONES:																
Installation Schedule:																					
	Pr Yr		FY 2	2003			FY	2004			FY	2005			FY :	2006			FY:	2007	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	151																				
Outputs	138	13																			

 Outputs
 Outputs
 Image: Contractor Contractor Contract Dates:
 ADMINISTRATIVE LEADTIME: FY 2005
 1 Months FY 2006
 PRODUCTION LEADTIME: 11 Months FY 2006

 Delivery Date:
 FY 2004
 FY 2005
 FY 2006

FY 2009

FY 2008

Inputs

FY 2010

FY 2011

Totals

151

151

To

Complete

Date:

February 2003

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

			ı																	
	FY 2 and l	2002 Prior	FY 2	2003	FY 2	2004	FY '	2005	FY ?	2006	FY 2	2007	FY '	2008	FY	2009	т	'C	TOT	ΓΑΙ
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	151	19.5																	151	19.5
Installation Kits	0																			
Nonrecurring Engineering	0																			
I&KP/NETT Training	0	0.3																		0.3
FAT/PCI	0	0.4																		0.4
Kit Refurbishment	0	0.6																		0.6
Engineering Services	0	0.3																		0.3
Project Management	0	1.6																		1.6
Contractor Logistics Support	0	3.9																		3.9
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	138	1.3	13																151	1.3
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installer and	138	1.3	13	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	151	1.2
Total Installment	138	1.3 27.9	13	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	151	1.3 27.9
Total Procurement Cost		27.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		27.9

					INDI	VIDUAL M	ODIFIC	ATION				Date:	Februa	ry 2003	3		
MODIFICATION TITLE:	Environment	tal Control Unit/Pr	rime Power Un	it [MOD 2] 0	01-88-03-1515												
MODELS OF SYSTEM A	FFECTED:																
DESCRIPTION/JUSTIFIC	CATION:																
The Environmental C battery power. The F operational use of Av a broad spectrum of C	ECU/PPU is enger in ho	s required to elect climates. Th	liminate a tu nis mo difica	urret heat s ation fulfill	tress safety s the user re	issue and equiremen	to lift tl t for a s	ne cond eparate	itional fir , reliable j	e unit materi power source	el releas and for	e. ECU/ heat and	PPU remove	es rest	riction	is on	
DEVELOPMENT STATU	S/MAIOR DI	EVELOPMENT N	AII ESTONES														
	DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																
Installation Schedule:																	
	Pr Yr Totals	FY 200		4 1	FY 2004 2	3 4	1	FY 2	2005	4 1	FY 2	2006	4	1	FY 200	7	4
Inputs	370	1 2	36 2		2	3 4	1	2	3	4 1	L	3	4	1		3	4
Outputs	370	15	36 2														
														_			
		FY 2008		FY 20		4 .	FY 2			FY	2011			`o			Totals
Inputs	1	2 3	4	1 2	3	4 1	2	3	4	1 2	3	4	Comple	.e			441
Outputs																	441
METHOD OF IMPLEMENT Contract Dates:	NTATION:	Contractor FY 2004		ADMINIST	ΓRATIVE LEA FY 200			4 Months		PRODU FY 2006		EADTIME	: 12 <b>M</b> o	nths			
Delivery Date:		FY 2004			FY 200	)5				FY 2006							

CE8710 AVENGER MODS Item No. 23 Page 5 of 6 163 Exhibit P-3a Individual Modification

Date:

February 2003

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

			l																	
	FY 2002 and Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0								.,		.,									
Procurement	0																			
Kit Quantity	441	15.1																	441	15.1
Installation Kits	0																			
Nonrecurring Engineering	0																			
Engineering Sevices	0																			
Net Training	0	0.5																		0.5
Program Management	0	0.5																		0.5
Contractor Logistics Support	0	1.1																		1.1
Production Verification Test	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	370	2.7	71																441	2.7
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	370	2.7	71	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	441	2.7
Total Procurement Cost		19.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		19.9

Ext	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ite:	I	February 2003		
Appropriation/Budget Ac Missile Procurement, Army /	•	siles				P-1 Item Nom ITA	enclature S/TOW MOD	S (C61700)				
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program El	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	747.2	69.7	64.3	58.9	15.7	9.8	9.7					975.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	747.2	69.7	64.3	58.9	15.7	9.8	9.7					975.4
Initial Spares	34.9											34.9
Total Proc Cost	782.1	69.7	64.3	58.9	15.7	9.8	9.7					1010.3
Flyaway U/C												
Wpn Sys Proc U/C												

The Tube-launched, Optically tracked, Wire command-link guided (TOW) Improved Target Acquisition (ITAS) is an upgrade to our light infantry's TOW 2 weapon system and provides a 2d-generation forward-looking infrared capability that will enable defeat of threat armored vehicles at extended ranges in all expected battlefield conditions. 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 modification provides the TOW 2B missile with the capability to counter Active Protection Systems currently being deployed on threat armor systems. This system supports the Legacy transition path of the Transformation Campaign Plan.

#### Justification:

Funding in FY04/FY05 will be used for procurement of training devices to meet increased Field Tactical Trainer density requirement, fielding of systems, Contractor Logistics Support, application of TOW training missile conversion hardware procured in FY03, government asset layaway, engineering services and production delivery support.

The ITAS/TOW Program has been terminated after FY03 in order to fund Transformation and other higher priority Army programs.

erial No: b/Modification of missiles ems:  Classification	Fiscal Years	Code:	Other Related F	P-1 Item Nomeno Program Elements:		ITAS/TOW M	ODS (C61700)			
	Fiscal Years	Code:	Other Related F	Program Elements:						
Classification	Fiscal Years									
Classification										
	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
O P RACTICE)										
SAFETY	40.7	5.4	1.4	0.0	0.0	0.0	0.0	0.0	0.4	47.9
(MOIC)										
SAFETY	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
T ACQUISITION SYSTEM)										
OPERATIONAL	352.0	53.5	14.3	9.8	9.7	0.0	0.0	0.0	0.0	439.3
PROTECTION SYSTEM)										
OPERATIONAL	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
	413.5	58.9	15.7	9.8	9.7	0.0	0.0	0.0	0.4	508.0
	(MOIC) SAFETY T ACQUISITION SYSTEM) OPERATIONAL PROTECTION SYSTEM)	(MOIC) SAFETY 14.0 T ACQUISITION SYSTEM) OPERATIONAL 352.0 PROTECTION SYSTEM) OPERATIONAL 6.8	(MOIC) SAFETY 14.0 0.0 T ACQUISITION SYSTEM) OPERATIONAL 352.0 53.5 PROTECTION SYSTEM) OPERATIONAL 6.8 0.0	(MOIC)  SAFETY 14.0 0.0 0.0  T ACQUISITION SYSTEM)  OPERATIONAL 352.0 53.5 14.3  PROTECTION SYSTEM)  OPERATIONAL 6.8 0.0 0.0	(MOIC)  SAFETY 14.0 0.0 0.0 0.0  T ACQUISITION SYSTEM)  OPERATIONAL 352.0 53.5 14.3 9.8  PROTECTION SYSTEM)  OPERATIONAL 6.8 0.0 0.0 0.0	(MOIC) SAFETY 14.0 0.0 0.0 0.0 0.0 0.0 T ACQUISITION SYSTEM) OPERATIONAL 352.0 53.5 14.3 9.8 9.7 PROTECTION SYSTEM) OPERATIONAL 6.8 0.0 0.0 0.0 0.0	(MOIC) SAFETY 14.0 0.0 0.0 0.0 0.0 0.0 0.0 T ACQUISITION SYSTEM) OPERATIONAL 352.0 53.5 14.3 9.8 9.7 0.0 PROTECTION SYSTEM) OPERATIONAL 6.8 0.0 0.0 0.0 0.0 0.0	(MOIC) SAFETY 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 T ACQUISITION SYSTEM) OPERATIONAL 352.0 53.5 14.3 9.8 9.7 0.0 0.0 PROTECTION SYSTEM) OPERATIONAL 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(MOIC) SAFETY 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 T ACQUISITION SYSTEM) OPERATIONAL 352.0 53.5 14.3 9.8 9.7 0.0 0.0 0.0 PROTECTION SYSTEM) OPERATIONAL 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(MOIC) SAFETY 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

								INDIVII	DUAL M	ODIFIC	ATION					Date:		February 2	2003		
MODIFICATION TITLE:	Missile C	Conversio	n (HEAT	TO PRA	CTICE) [	MOD 1] N	MC-1-82-	03-3020													
MODELS OF SYSTEM A	FFECTEI	D: ITAS/	TOW MI	SSILE SY	STEM B	GM 71A,	C, D) BT	M 71A (C	C61700)												
DESCRIPTION/JUSTIFIC	CATION:																				
The modifications witraining. To prevent ignition of the flight	flyback,	the Mo	OIC ope	ens the c	ircuit b	etween t	he miss	ile batte	ery and f	light n	notor ign	ition ar	nd the sa	afe and							in
DEVELOPMENT STATU	S/MAJOR	DEVEL	OPMEN'	Γ MILES	TONES:																
Installation Schedule:																					
	Pr Yr		FY 2	2003			FY 2	2004			FY 2	005			FY 2	006			FY 200	7	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	63213				1500		1032														
Outputs	63213					1500	1500	120													
			2008			FY 2				FY 2				FY 2				То		То	otals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	С	omplete			_
Inputs																					7245
Outputs																		912		67	7245
METHOD OF IMPLEMENT	NTATION					ADMINIS			ГІМЕ:		12 Month	5			TION LE	ADTIM	Ξ: :	3 Months			
Contract Dates:			FY 2004	M	Iar 03			FY 2005						FY 2006							
Delivery Date:			FY 2004	Ju	ıl 03		]	FY 2005	Oct	03			]	FY 2006	Mar	04					

C61700 ITAS/TOW MODS Item No. 24 Page 3 of 6 167 Exhibit P-3a Individual Modification

Date:

February 2003

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

	•	2002	FY 2	2002	FY 2	2004	FY :	2005	FY 2	2006	FY 2	2007	FY 2	2000	FY 2	2000	T	C	TOT	гат
	and l Qty	rior \$	Qty	\$ \$	Qty	2004 \$	Qty	2005 \$	Qty	\$ \$	Qty	\$	Qty	2008 \$	Qty	2009 \$	Qty	\$	Qty	AL \$
RDT&E	Qty 0	Φ	Qty	Ф	Qıy	ф	Qty	Ф	Qty	φ	Qıy	φ	Qıy	ф	Qty	Φ	Qty	ф	Qıy	ф
Procurement	0																			
Kit Quantity	0																			
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	63213	25.8	4032	5.4															67245	31.2
Equipment, Nonrecurring	03213	23.0	4032	5.4															07243	31.2
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	<b>0</b> 63213	140																	62212	140
FY2002 & Prior Equip Kits		14.9			3120	1.4											912	0.4	63213 4032	14.9 1.8
FY2003 Equip Kits	0				3120	1.4											912	0.4	4032	1.8
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	63213	14.9		0.0	3120	1.4		0.0		0.0		0.0		0.0		0.0	912	0.4	67245	16.7
Total Procurement Cost		40.7		5.4		1.4		0.0		0.0		0.0		0.0		0.0		0.4		47.9

# INDIVIDUAL MODIFICATION Date: February 2003

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:

The Tube-launched, Optically tracked, Wire command-link guided (TOW) Improved Target Acquisition System (ITAS) is a critical system to the interim forces, selected as the off-the-shelf anti-tank system for the Interim Armored Vehicle's Anti-Tank Guided Missile variant and as the surrogate for the Mobile Gun System (MGS) variant until a MGS variant is developed. ITAS is an upgrade to the light infantry's TOW 2 weapon system and provides a capability that will defeat threat armored vehicle at extended ranges in all expected battlefield conditions. The ITAS meets the immediate needs of the National Command Authority and the CINCs. ITAS provides an operational warfighting capability now to ensure combat overmatch and dominance at every point on the spectrum of operations. TOW ITAS is an extremely lethal and survivable anti-armor system that also provides significant reconnaissance, surveillance, and target acquisition (RSTA) capabilities. ITAS provides the National Command Authority and CINCs with a responsive, agile and lethal anti-armor option and capability for regional engagement, peacekeeping, crisis response, and sustained land force operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Inputs
Outputs

Inputs Outputs

Pr Yr		FY 2	2003			FY 2	2004			FY 2	2005			FY	2006			FY	2007		
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	3	4
315	53	49	31	31	25	28	26	22	22	21	14										
256	40	37	2	31	20	60	40		20		20	44	16	32	19						

	FY 2	2008			FY	2009			FY 2	2010			FY 2	2011		To	Totals
1	2	3	4	1	2	. 3	4	1	2	3	4	1	2	3	4	Complete	
																	637
																	637

METHOD OF IMPLEMENTATION:			ADMINISTRATIVE LEADTIN	ME:	10 Months	PRODUCTI	ON LEADTIME:	18 Months
Contract Dates:	FY 2004	Dec 01	FY 2005	Dec 02		FY 2006	Dec 03	
Delivery Date:	FY 2004	Jun 03	FY 2005	Jun 04		FY 2006	Jun 05	

Date:

February 2003

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

	FY	2002																		
	and	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY :	2008	FY:	2009	Т	C	ТОТ	`AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	551		86																637	
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0	310.8		42.5		5.7		3.3		8.0										370.3
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0	1.1		0.1																1.2
Training Equipment	0	18.8		7.8		4.9		4.0												35.5
Support Equipment	0																			
Other	0	3.0		0.4																3.4
ICS/CLS Contractor Support	0	17.8		2.5		3.4		2.3		1.5										27.5
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	256	0.5	110	0.2	120	0.3	65	0.2											551	1.2
FY2003 Equip Kits	0						19	0.0	67	0.2									86	0.2
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	256	0.5	110	0.2	120	0.3	84	0.2	67	0.2		0.0		0.0		0.0		0.0	637	1.4
Total Procurement Cost		352.0		53.5		14.3		9.8		9.7		0.0		0.0		0.0		0.0		439.3

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	nte:	F	ebruary 2003		
Appropriation/Budget Acti Missile Procurement, Army /3/	•	siles				P-1 Item Nom MLI	nenclature RS MODS (C	67500)				
Program Elements for Cod	e B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	246.0	7.1	13.4	31.2	19.9	21.3	16.1	9.9	19.3	6.7	140.1	531.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	246.0	7.1	13.4	31.2	19.9	21.3	16.1	9.9	19.3	6.7	140.1	531.1
Initial Spares	14.6	0.8	0.9	5.5	1.3	5.8	5.9	4.3	3.3	2.6	44.0	88.9
Total Proc Cost	260.6	7.9	14.3	36.7	21.2	27.1	22.1	14.2	22.6	9.3	184.1	620.1
Flyaway U/C												
Wpn Sys Proc U/C												

Modification kits are procured for previously manufactured Multiple Launch Rocket System (MLRS) launchers and associated training and ground support equipment. Modifications are vital to the Counterattack Corps and are projected to decrease Operations & Support (O&S) costs and reduce logistics impacts. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

## **Justification:**

The FY04/FY05 program funding supports Interim Improved Position Determining System (IPDS) Launcher Contractor Logistics Support (CLS), Joint Technical Architecture-Army (JTA-A), Improved Weapons Interface Unit (IWIU), M270A1 Generator Improvements, Obsolescence Mitigation/Engineering Change Proposal Reliability Integration (to include Environmental Control Unit (ECU)/Auxiliary Power Unit (APU), and 600hp Engine Carrier Modification.

Exhibit P-40M, Bud	get Item Justificatio	n Sheet				Date	e:	Fe	ebruary 2003		
Appropriation/Budget Activity/Seria Missile Procurement, Army /3/M					P-1 Item Nomeno	lature	MLRS MODS	(C67500)			
Program Elements for Code B Items	s:		Code:	Other Related I	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Inactive Mods											
Prior Year MCs	Oper/Safety/Reliab	220.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	220.3
Interim Improved Position Dete	rmining System Lchr										
1-95-03-0528	Operational	23.9	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	26.7
Selective Availability Anti-Spoo	ofing Module										
1-96-03-0534	Operational	0.0	0.0	0.0	0.0	0.0	0.0	13.1	2.2	6.3	21.6
Joint Technical Architecture-Ar	rmy (JTA-A)										
1-97-03-0537	Operational	11.1	0.3	0.3	7.2	4.1	3.7	0.4	0.0	0.0	27.1
Improved Weapons Interface Un	nit Modification MOD										
1-99-03-0546	Operational	0.0	14.6	4.4	4.7	2.8	0.7	0.0	0.0	0.0	27.2
Engine/Transmission Diagnostic	(Common IEDB)										
1-98-03-0542	Oper/Reliab	0.0	0.0	0.0	1.1	1.7	2.3	2.9	2.6	0.2	10.8
Streamlined Technology Enhand	cement Program (STEP)										
1-98-03-0541	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.8	105.8
M270A1 Generator Improveme	nts										
1-02-02-0553	Reliability	0.0	0.0	1.1	0.8	0.8	0.1	0.0	0.0	0.0	2.8
Obsolescence Mitigation/ECP F	Reliability Intg										
1-99-03-Obsc	Oper/Reliab	11.2	4.8	3.3	3.2	2.8	2.3	2.9	1.9	27.8	60.2
600 hp Engine Conversion											
1-02-02-0551	Reliability	0.0	5.9	6.5	0.5	0.0	0.0	0.0	0.0	0.0	12.9

C67500 MLRS MODS Item No. 25 Page 2 of 13 172 Exhibit P-40M Budget Item Justification Sheet

Exhibit P-40M	, Budget Item Justifica	tion Sheet				Dat	e:	F	ebruary 2003		
Appropriation/Budget Act Missile Procurement, A	tivity/Serial No: Army /3/Modification of missiles				P-1 Item Nomeno	lature	MLRS MODS	(C67500)			
Program Elements for Coo	de B Items:		Code:	Other Related I	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Environmental Control	Unit/Auxiliary Power Unit										
1-02-02-0552	Operational	0.0	4.2	2.9	3.8	3.9	0.8	0.0	0.0	0.0	15.6
Totals		266.5	31.2	19.9	21.3	16.1	9.9	19.3	6.7	140.1	531.0

Date:

February 2003

MODIFICATION TITLE: Interim Improved Position Determining System Lchr [MOD 2] 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. This effort is necessary to support the Counterattack Corps until an adequate quantity of M270A1s are fielded.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

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

Inputs Outputs

Inputs Outputs

Pr Yr		FY :	2003			FY 2	2004			FY:	2005			FY 2	2006			FY 2	2007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
29																				
29																				

Totals	То		2011	FY 2			2010	FY 2			2009	FY :			2008	FY 2	
	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
29																	
29																	

METHOD OF IMPLEMENTATION:	Contractor	ADMINISTRATIVE LEADTIME:	6 Months	PRODUCTION LEADTIME:	0 Months
Contract Dates:	FY 2004	FY 2005		FY 2006	
Delivery Date:	FY 2004	FY 2005		FY 2006	

Date:

February 2003

MODIFICATION TITLE (Cont): Interim Improved Position Determining System Lchr [MOD 2] 1-95-03-0528

		2002																		
	and l	Prior		2003		2004	FY:		FY 2		FY 2		FY 2		FY 2		Т		ТОТ	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	29	18.0																	29	18.0
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0	5.9		1.4		1.4														8.7
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		23.9		1.4		1.4		0.0		0.0		0.0		0.0		0.0		0.0		26.7

# INDIVIDUAL MODIFICATION MODIFICATION TITLE: Selective Availability Anti-Spoofing Module [MOD 3] 1-96-03-0534 MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS) DESCRIPTION/JUSTIFICATION: The Selective Availability Anti-Spoofing Module (SAASM) is required because 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 the modification of the Position Navigation Unit (PNU). This modification will include SAASM installation to the GPS receiver card, addition of an updated computer processor and revison of the backplane. Future GPS enhancements for authorized DoD usage are required for NSA compliance in the FY09 time frame. This modification is critical for future combat operations and weapon system accuracy in support of the Counterattack Corps.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The changes to the PNU have been cut into LRIP5 M270A1 contract.

Installation Schedule:																				
	Pr Yr		FY	2003			FY	2004			FY 20	005			FY 20	)6		FY	2007	
	Totals	1	2	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1 2	2	3 4
Inputs	0																			
Outputs	0																			
		FY	2008			FY :	2009			FY 2	2010			FY 20	11		To	)		Totals
	1	2	3	<b>,</b>	4 1	2	3	4	1	2	3	4	1	2	3	4	Complete	2		
Inputs									17	17	18	18	8	9	9	9	5	0		155
Outputs											18	19	19	19		17	6	3		155
METHOD OF IMPLEME	NTATION	J:	Depot			ADMINI	STRATI	VE LEAD	TIME:		3 Months		PR	ODUCT	ION LEA	DTIME:	18 Mon	ths		
Contract Dates:			FY 2004	. ]	FY 2004			FY 2005	FY	2005			FY	2006	FY 20	006				
Delivery Date:			FY 2004	. ]	FY 2004			FY 2005	FY	2005			FY	2006	FY 20	006				

Date:

February 2003

MODIFICATION TITLE (Cont): Selective Availability Anti-Spoofing Module [MOD 3] 1-96-03-0534

	FY :	2002	1																	
	and l	Prior	FY	2003	FY:	2004	FY:	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY :	2009	T	C	TOT	`AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	0												70	2.8	35	1.4	50	2.1	155	6.3
Installation Kits	0												70	1.6	35	0.8	50	1.2	155	3.6
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0												40	8.7					40	8.7
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																155	0.0	155	
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																70	1.3	70	1.3
FY2009 Equip Kits	0																35	0.7	35	0.7
TC Equip- Kits	0																50	1.0	50	1.0
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	155	3.0	155	3.0
Total Procurement Cost		0.0		0.0		0.0		0.0		0.0		0.0		13.1		2.2		6.3		21.6
				3.3		2.3		2.2												

Date:

February 2003

MODIFICATION TITLE: Joint Technical Architecture - Army (JTA-A) [MOD 4] 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) is an initial hardware change that will provide 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 changes 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). This effort includes procurement of 100 LCFCP kits in FY02 and this hardware will be installed in FY03 and FY04. An additional special kit will be required in FY04 to integrate the Force XXI Battle Command Brigrade & Below (FBCB2). This hardware will be procured in FY04 through FY07 and installed in FY05 through FY08. Total FBCB2 kits to be procured is 230. This modification is critical for future operations within the Counterattack Corps and is critical to Legacy to Objective issue.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The LCFCP is a requirement for the M270A1 to be compliant with First Digitized Corps (FDC) by the end of FY06. The planned production cut-in of the LCFCP is with the M270A1 Low Rate Initial Production (LRIP)4. A contract for the procurement of 100 retrofit kits was awarded 3QFY02.

Installation Schedule:

Inputs Outputs

Inputs Output

Pr Yr		FY 2	003			FY 2	2004			FY 2	2005			FY 2	2006			FY 2	007	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	8	13	12	12		12	16	15				30	30	30	31	13	14	14	14	13
0		16	21	13		7	21	22					19	38	38	26		19	19	17

		F	Y 20	08		FY	2009			FY	2010			FY 2	2011		To	Totals
	1		2	3	4	1	2	3 4	4 1	2	3	4	1	2	3	4	Complete	
S	13		14	14														330
its			19	19	16													330

METHOD OF IMPLEMENTATION:	Depot	ADMINISTRATIVE LEAD	TIME:	3 Months	PRODUCTI	ON LEADTIME:	9 Months
Contract Dates:	FY 2004	FY 2005	Jan 05		FY 2006	Jan 06	
Delivery Date:	FY 2004	FY 2005	Oct 05		FY 2006	Oct 06	

Date:

February 2003

MODIFICATION TITLE (Cont): Joint Technical Architecture-Army (JTA-A) [MOD 4] 1-97-03-0537

	FY:	2002																		
	and l	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	FY:	2009	Т	C	ТОТ	AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E	0																			
Procurement	0																			
Kit Quantity	100	11.1					121	7.2	55	3.3	54	3.3							330	24.9
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0		50	0.3	50	0.3													100	0.6
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0								121	0.8									121	0.8
FY2006 Equip Kits	0										55	0.4							55	0.4
FY2007 Equip Kits	0												54	0.4					54	0.4
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0	50	0.3	50	0.3		0.0	121	0.8	55	0.4	54	0.4		0.0		0.0	330	2.2
Total Procurement Cost		11.1		0.3		0.3		7.2		4.1		3.7		0.4		0.0		0.0		27.1

Date:

February 2003

MODIFICATION TITLE: Improved Weapons Interface Unit Modification MOD [MOD 5] 1-99-03-0546

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

## DESCRIPTION/JUSTIFICATION:

The Development of the Guided MLRS Rocket and HIMARS 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 196 Weapons Interface Units. Procurement is required to retrofit WIU to launchers produced in LRIP 1-5 and associated Spares. This modification is essential to standardize WIU configurations and eliminate modification costs to missiles and rockets.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development began in 3QFY01 and this on-going development effort is expected to provide Improved Weapons Interface Unit (IWIU) for Guided MLRS testing, HIMARS Integration, and M270A1 Retrofit. Retrofit contract award is scheduled for Mar 03.

Installation Schedule:																					
	Pr Yr		FY	2003			FY 2	2004			FY 2	2005			FY 20	06			FY 200	)7	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						28	28	28	29	8	8	8	9	9	9	9	9	7	7		
Outputs							19	19	19		19	19	19		19	19	19	19	6		
		FY 2	2008			FY 2	2009			FY 2	2010			FY 2	011			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs																					196
Outputs																					196
METHOD OF IMPLEME	ENTATION	<b>J</b> :	Depot			ADMINI	STRATIV	/E LEAD	TIME:		3 Months			PRODUC	TION LEA	ADTIME	E: 9	Months			
Contract Dates:		]	FY 2004	A	pr 04		]	FY 2005	Apr	05				FY 2006	Apr 0	6					
Delivery Date:		]	FY 2004	J.	an 05		]	FY 2005	Jan	06			1	FY 2006	Jan 0	7					

Date:

February 2003

MODIFICATION TITLE (Cont): Improved Weapons Interface Unit Modification MOD [MOD 5] 1-99-03-0546

	FY	2002																		
	and l	Prior	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY	2008	FY	2009	T	'C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity			113	9.7	33	2.9	36	3.2	14	1.3									196	17.1
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring			25	4.2															25	4.2
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment				0.7																0.7
Other					57	0.0	57	0.0	57	0.0	25	0.0							196	
Interim Contractor Support																				
Installation of Hardware																				
FY 2002 & Prior Equip Kits																				
FY 2003 – Kits					57	1.5	56	1.5											113	3.0
FY 2004 Equip Kits							1	0.0	34	0.9									35	0.9
FY 2005 Equip Kits									23	0.6	13	0.4							36	1.0
FY 2006 Equip Kits											12	0.3							12	0.3
FY 2007 Equip Kits																				
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	57	1.5	57	1.5	57	1.5	25	0.7		0.0		0.0		0.0	196	5.2
Total Procurement Cost		0.0		14.6	3,	4.4	5,	4.7	5,	2.8	23	0.7		0.0		0.0		0.0	170	27.2
				9						9				2.2		2.0		5.5		

Date:

February 2003

MODIFICATION TITLE: Obsolescence Mitigation/ECP Reliability Intg [MOD 9] 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. Additional procurement of kits and funding was required for installation in FY01 to facilitate the preparation of the M270 Launcher and Carrier into a M270A1 "ready" configuration. Additional hardware requirements are expected due to increased digitization equipment added to the cab. This modification program will reduce logistics supportability cost and will provide enhanced equipment in support of the Counterattack Corps.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:																					
	Pr Yr		FY	2003			FY	2004			FY 2	2005			FY 200	06			FY 2	2007	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2	3	4
Inputs	0																				
Outputs	0																				
		FY 2	2008			FY:	2009			FY 2	2010			FY 2	011			To			Totals
	1	2	3	4	. 1	2	3	4	1	2	3	4	1	2	3	4	(	Complete			
Inputs																					0
Outputs																					
METHOD OF IMPLEME	NTATION	V:				ADMINI	STRATI	VE LEAD	TIME:		0 Months		]	PRODUC	TION LEA	DTIM	Е:	0 Months			
Contract Dates:		]	FY 2004					FY 2005					]	FY 2006							
Delivery Date:		]	FY 2004					FY 2005					1	FY 2006							

Date:

February 2003

MODIFICATION TITLE (Cont): Obsolescence Mitigation/ECP Reliability Intg [MOD 9] 1-99-03-Obsc

		2002		2002	T77.7	2004	EX. 6	2005	F77.6	1006	F77.0	.005	F77.7	2000	F77.7	2000			mon	D 4 Y
		Prior		2003		2004	FY 2		FY 2		FY 2		FY 2		FY			C	TOT	
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	0																			
Procurement Kit Quantity	<b>0</b> 0																			
Installation Kits	0 0																			
Installation Kits, Nonrecurring		11.0		4.0		2.2		2.2		2.0		2.2		2.0		1.0		27.0		60.2
Equipment	0	11.2		4.8		3.3		3.2		2.8		2.3		2.9		1.9		27.8		60.2
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip Kits	0																			
FY2003 Equip Kits	0																			
FY2004 Equip Kits	0																			
FY2005 Equip Kits	0																			
FY2006 Equip Kits	0																			
FY2007 Equip Kits	0																			
FY2008 Equip Kits	0																			
FY2009 Equip Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		11.2		4.8		3.3		3.2		2.8		2.3		2.9		1.9		27.8		60.2

Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	February 2003		
Appropriation/Budget Act Missile Procurement, Army //	-	siles				P-1 Item Nom HIM		FICATIONS: (	NON AAO) (C	C67501)		
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:	C67500				
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost					0.5	0.5	8.0	11.8	16.1	8.3	131.8	176.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					0.5	0.5	8.0	11.8	16.1	8.3	131.8	176.9
Initial Spares												
Total Proc Cost					0.5	0.5	8.0	11.8	16.1	8.3	131.8	176.9
Flyaway U/C												
Wpn Sys Proc U/C												

Modification kits will be procured for the High Mobility Artillery Rocket System (HIMARS) Laucher and associated training and ground support equipment. These modifications are vital to the Counterattack Corps and are projected to decrease Operations & Support (O&S) costs, reduce logistical impacts and mitigate obsolescence. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

## **Justification:**

Justification: FY04/FY05 funds support the initiation of the HIMARS modification program.

	, Budget Item Justificat	non Sneet						F	ebruary 2003		
Appropriation/Budget Act Missile Procurement, A	ivity/Serial No: army /3/Modification of missiles				P-1 Item Nomeno	lature	HIMARS MO	DIFICATIONS: (	NON AAO) (C6750	1)	
Program Elements for Coo	de B Items:		Code:	Other Related I	Program Elements:		C67500				
Description		Fiscal Years									
OSIP NO.	Classification	2002 & PR	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TC	Total
Block Reliability MOD	d's										
1-03-02-0556		0.0	0.0	0.2	0.2	3.2	8.4	12.7	5.0	119.0	148.7
Cordless Vehicular Inte	rcommunication System (VIS)										
1-03-02-0557		0.0	0.0	0.0	0.0	4.1	2.5	2.6	2.6	1.9	13.7
Obsolescence Mitigatio	n										
1-03-02-0558		0.0	0.0	0.3	0.3	0.7	0.9	0.8	0.7	10.9	14.6
Totals		0.0	0.0	0.5	0.5	8.0	11.8	16.1	8.3	131.8	177.0

Exhi	bit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	ebruary 2003		
Appropriation/Budget Activ Missile Procurement, Army /4/5	•	arts				P-1 Item Non SPA		EPAIR PARTS	(CA0250)			
Program Elements for Code	B Items:			Code:	Other Relate	ed Program El	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	2748.2	18.9	15.1	55.0	50.5	34.1	30.7	22.8	26.6	22.2	241.5	3265.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2748.2	18.9	15.1	55.0	50.5	34.1	30.7	22.8	26.6	22.2	241.5	3265.6
Initial Spares												
Total Proc Cost	2748.2	18.9	15.1	55.0	50.5	34.1	30.7	22.8	26.6	22.2	241.5	3265.6
Flyaway U/C												
Wpn Sys Proc U/C												

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

## Justification:

The funds in this account procure depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. FY 04 funds will procure Javelin, MLRS, Patriot Mods and MLRS Mods, HIMARS and HIMARS Mods initial spares.

Exl	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	F	ebruary 2003		
Appropriation/Budget Ac	-	and facilities				P-1 Item Nom AIR		ARGETS (C93	3000)			
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	368.4	2.4	3.3	3.3	3.5	3.6	3.7	3.8	3.8	3.9		399.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	368.4	2.4	3.3	3.3	3.5	3.6	3.7	3.8	3.8	3.9		399.6
Initial Spares	1.3											1.3
Total Proc Cost	369.7	2.4	3.3	3.3	3.5	3.6	3.7	3.8	3.8	3.9		400.9
Flyaway U/C												
Wpn Sys Proc U/C												

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 Standards In Training Commission (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:

FY04/FY05 funds the Air Defense Artillery Target System and ancillary hardware consisting of scoring devices and ground support equipment in support of gun, aerial tracking, and Precision Gunnery System (PGS) training. These targets support the U.S. Army Avenger, Bradley Stinger Fighting Vehicle (BSFV) and Linebacker systems worldwide in the U.S., Korea, and Germany. 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 the approved training doctrine. These targets are necessary to meet training strategy and standards and are essential to qualify soldiers and units to U.S. Army Readiness standards.

Exhi	bit <b>P-4</b> 0	, Budge	t Item J	ustifica	tion She	eet	Da	nte:	F	February 2003					
Appropriation/Budget Activ Missile Procurement, Army /5/S	•	and facilities				P-1 Item Nom ITE		AN \$5.0M (MI	SSILES) (CL2	(000)					
Program Elements for Code	B Items:			Code:	Other Relate	ed Program Ele	ements:								
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total Pro							
Proc Qty															
Gross Cost	38.7	1.0	1.0	0.9	0.0	0.0	0.0	0.0 0.0 0.0 0.0 41.							
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	38.7	1.0	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0		41.7			
Initial Spares															
Total Proc Cost	38.7	1.0	1.0	0.9	0.0	0.0	0.0 0.0 0.0 0.0 41.								
Flyaway U/C												·			
Wpn Sys Proc U/C															

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

## **Justification:**

FY04/FY05 funding will procure tools and shop sets to support the MRLS system.

Exhibit P-5, Weapon MSLS Cost Analysis	Miss	sile Procure	udget Activ ment, Army / nent and facili	rity/Serial No. / 5 / ities		P-1 Line I ITEMS LES	tem Nomenclatur SS THAN \$5.0M (M	e: ISSILES) (CL2000)		Weapon System 1	Гуре:	Date: Februa	ary 2003
MSLS	D		FY 02			FY 03			FY 04			FY 05	
Cost Elements	CD Total	lCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
MLRS Components Assembly TOW Components Assembly AVENGER Components Assembly NOTE: All are missile tool kits no mods. Each system has more than one kit with varying quantities and unit costs for each kit.	CD Total		Qty Each	\$000	\$000 429 257 21 11 109 64	Qty Each	UnitCost \$000	\$000 6 4	Each	UnitCost \$000	\$000 6 4	Each	UnitCost \$000
Total		1027			891			10			10		

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	F	February 2003		
Appropriation/Budget Acti Missile Procurement, Army /5		and facilities				P-1 Item Non MIS		LITARIZATIO	N (HL2000)			
Program Elements for Cod	le B Items:			Code:	Other Relat	ed Program El	ements:					
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	7.8	1.3	2.3	4.8								16.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	7.8	1.3	2.3	4.8								16.3
Initial Spares												
Total Proc Cost	7.8	1.3	2.3	4.8								16.3
Flyaway U/C												
Wpn Sys Proc U/C												

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

#### Justification:

FY03 funding procures 1) demilitarization of Army tactical missiles (SHILLELAGH, HAWK, STINGER, DRAGON, and PATRIOT) and missile components using Open Burning and Open Detonation (OB/OD) techniques, 2) demilitarization of basic TOW missiles by mechanical resource recovery and recycling (R3) techniques, 3) LRIP demilitarization of improved TOW missiles to include energetics recycling, and 4) the conduct and analysis of a production scale Risk Reduction Program for MLRS Demilitarization using R3 technologies. The missile and missile component demilitarization stockpile is increasing due to 1) inventory ageing, 2) Army modernization efforts, and 3) serviceablilty issues caused by increased deployments. The stockpile today is over 60,000 missiles and missile components that will grow to over 600,000 by FY14. Currently, the Army uses the destructive method of OB/OD to demilitarize tactical missiles. However, pursuant to Executive Order 13101, "Greening of the Government," an aggressive R3 integrated program has been established by AMCOM which requires environmentally safe and cost effective alternatives to the OB/OD processes. FY 04-05 funding will be used for 1) OB/OD execution, 2) R3 demilitarization using mechanical segregation technologies for TOW missile, 3) R3 demilitarization using chemical processing technologies for TOW missile energetics, 4) production engineering, fabrication, installation, testing of production tooling, and renovation/repair of demilitarization facilities, and 5) optimization of R3 processes to include maketability analyses to improve reuse and re-certification of R3 materials for military reuse and commercial applications. The operational R3 production facilities will allow the Army to decrease its dependence on OB/OD to a minimum. Demilitarization utilizing R3 techniques will provide the Army with the capability to recycle/reuse much of the recovered materials for military and/or commercial applications.

During the FY04 Budget Cycle, funding for the Missile Demilitarization Program was transferred from the Missile Procurement, Army Appropriation to the Procurement Ammunition, Army Appropriation in order to consolidate the effort for all conventional munitions demilitarization.

Exhibit P-5, Weapon MSLS Cost Analysis  MSLS		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: February 2003	
					FY 03			FY 04			FY 05			
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
Shillelagh TOW R3 (MRC Support) TOW R3 R 3 Acq.Study Hawk Motors MLRS Stinger Patriot Dragon SS-11		\$000 975 1000 164 54 85 52	Each 4085  256 163 201 93	\$000 0 1 0 0 1	\$000 \$96 3172 100 696 97 50	Each 7539 5075 1000 428	\$000 0 1 1 0 0	\$000	Each	\$000	\$000	Each	\$000	
Total		2330			4811									

Exhibit P-40, Budget Item Justification Sheet									Date: February 2003					
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:					Other Relat	Other Related Program Elements:								
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog		
Proc Qty														
Gross Cost	602.4	3.1	3.3	3.3	3.4	3.5	3.7	3.8	3.9	4.0		634.4		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	602.4	3.1	3.3	3.3	3.4	3.5	3.7	3.8	3.9	4.0		634.4		
Initial Spares														
Total Proc Cost	602.4	3.1	3.3	3.3	3.4	3.5	3.7	3.8	3.9	4.0		634.4		
Flyaway U/C														
Wpn Sys Proc U/C														

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:**

FY04/FY05 funds 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: February 2003						
Appropriation/Budget A Missile Procurement, Army	-	P-1 Item Nomenclature PIF FOR OTHER (CA4002)													
Program Elements for Code B Items:					Other Related Program Elements:										
	Prior Years	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog			
Proc Qty															
Gross Cost	303.9	3.1	3.3	3.3	3.4	3.5	3.7	3.8	3.9	4.0		335.9			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	303.9	3.1	3.3	3.3	3.4	3.5	3.7	3.8	3.9	4.0		335.9			
Initial Spares															
Total Proc Cost	303.9	3.1	3.3	3.3	3.4	3.5	3.7	3.8	3.9	4.0		335.9			
Flyaway U/C															
Wpn Sys Proc U/C															

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 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.

Iowa Army Ammunition Plant: This program provides funding for Iowa Army Ammunition Plant's (AAP) continuing modernization, layaway, and maintenance of production capability for missile end items.

This program supports all transition paths of the Army Transformation Campaign Plan (TCP).

#### Justification:

ATEC: At RTTC, FY04/FY05 funds will fund: replacement of aging flight test instrumentation at the small missile production test range with automated, remotely controlled and configured devices; remotely programmable signal conditioning equipment for shock and vibration testing; upgraded instrumentation and equipment for the rocket motor dissection facility used in mechanical and chemical analysis of rocket motors; and a high performance electrodynamic exciter system and power amplifier for shock and vibration testing.

At WSMR, FY04/FY05 funds will fund: remotely controlled instrumentation and site monitoring equipment used in hazardous test areas during missile warhead testing; replacement sensors, telemetry equipment, time, space and position instrumentation, radio frequency measurement instruments and data processing equipment used for pre-launch missile systems measurements; remote assembly/disassembly equipment for missile component failure analysis; replacement shock and vibration data collection, analysis, and test equipment (accelerometers, amplifier systems, data lines, pyroshock test equipment, power amplifiers, electrodynamic shaker systems, etc.); replacement climatic and environmental test equipment (temperature, humidity, altitude, solar, fungal); and missile flight termination receiver laboratory test equipment used to test and certify flight safety equipment. 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.

Exhibit P-40C, Budget Item Justification Sheet		Date: February 2003						
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:	Items: Code: Other Related Program Elements:							
Benefits of this project include increased test efficiencies and decreased of Iowa AAP: In order to support the production of precision shaped charge Building 4B-22. Project will purchase/install a mass spectrometer for use area to store the precision press tooling fixtures/gauges in Building 1-01. missile, effort will place several buildings/ramps into layaway. Work inchequipment. In FY 2005, project provides for the reconstruction of the exte Resources also provide required inspection and maintenance of the Javelin These efforts support the Legacy transition path of the Transformation Ca	warheads to in the pressir In support of udes building erior building n and TOW M	specified tolling of warhea f replenishment (requipment) ramp enclos Missile produ	lerances, FY04 funds will d billets/assembly of compent requirements for the Jadecontamination, securing sures at Building 4B-22. E	plete warheads and will construct an environmentally-controlled tooling avelin and Tow-Launched, Optically Tracked, Wire-Guided (TOW) buildings, asbestos remediation, utility disconnects, removal of excess ffort replaces doors and lighting and provides adequate ventilation.				