

# DEPARTMENT OF THE ARMY

## Procurement Programs



Committee Staff Procurement Backup Book  
FY 2008 Grow the Army Detail

### MISSILE PROCUREMENT, ARMY

---

APPROPRIATION

February 2007



# Table of Contents - Missile Procurement, Army

<b>BLIN</b>	<b>SSN</b>	<b>Nomenclature</b>	<b>Page</b>
005	CC0007	JAVELIN (AAWS-M) SYSTEM SUMMARY .....	1
013	C50700	PATRIOT MODS .....	10
015	C61700	ITAS/TOW MODS .....	26



# Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 2 / Other missiles						P-1 Item Nomenclature JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)					
Program Elements for Code B Items:			Code:		Other Related Program Elements: CC1000						
	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	20882	199	48	385	605						22119
Gross Cost	2998.9	55.6	83.4	180.7	118.1	17.9	0.2	3.6	6.8		3465.3
Less PY Adv Proc	100.6										100.6
Plus CY Adv Proc	100.6										100.6
Net Proc Pl	2998.9	55.6	83.4	180.7	118.1	17.9	0.2	3.6	6.8		3465.3
Initial Spares	663.0		0.4								663.5
Total Proc Cost	3662.0	55.6	83.9	180.7	118.1	17.9	0.2	3.6	6.8		4128.8
Flyaway U/C											
Weapon System Proc U/C	0.1	0.3	1.7	0.5	0.2						2.8

**Description:**

Javelin, a fire-and-forget system, is critical to the operation of the Army's combat force because of its precision strike, man-portability, high reliability, and capability to engage multiple types of targets (tanks, armored personnel carriers, bunkers, helicopter, walls, etc). These characteristics are key elements of the Army's move to a more versatile, deployable, lethal, survivable, and sustainable force. Javelin is the medium antitank system for infantry, scouts and combat engineers. These forces must have the capability to defeat armored forces. Javelin is battle-proven and is being used in Operations Enduring Freedom and Iraqi Freedom. 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. 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 over 2.5 times the range 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. The Army is the lead of this joint program with the USMC.

**Justification:**

FY08 funds continue procurement of Javelin missiles and Command Launch Units. The FY08 Grow The Army funds procure 486 Javelin CLU and essential training devices for six new Infantry Brigade Combat Teams.

FY 2008 Base Appropriation: \$103.799 million  
 FY 2008 Grow The Army: \$ 76.914 million  
 FY 2008 Total: \$180.713 million  
 Quantity: Baseline 385 Missiles  
           Baseline 227 Command Launch Units  
           Grow The Army 486 Command Launch Units

<b>Exhibit P-5, Weapon MSLS Cost Analysis</b>		Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 / Other missiles			P-1 Line Item Nomenclature: JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)			Weapon System Type:			Date: February 2007		
<b>MSLS Cost Elements</b>	ID	<b>FY 06</b>			<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>Missile Hardware - Recurring</b>													
All Up Round		25075	199	126	6178	48	129	50904	385	132	81194	605	134
Engineering Services		1986			434			2556			3328		
Engineering Change Orders		25			6			51			81		
Acceptance Testing		1371			1400			1435			1460		
Fielding		4			2			9			13		
<b>Subtotal Missile Hardware</b>		<b>28461</b>			<b>8020</b>			<b>54955</b>			<b>86076</b>		
<b>Procurement Support</b>													
Project Management		4750			7299			11649			7610		
Production Engineering		3166			4866			7766			5074		
Publications/Technical Data		59			60			62			63		
<b>Subtotal Procurement Support</b>		<b>7975</b>			<b>12225</b>			<b>19477</b>			<b>12747</b>		
<b>Command &amp; Launch Hardware</b>													
Command Launch Unit		14539	102	143	50008	344	145	94671	713	133	18204	120	152
Engineering Services		1133			3462			4476			734		
Engineering Change Orders		14			49			94			18		
Fielding		1088			7452			4313			276		
<b>SubTotal C&amp;L Hardware</b>		<b>16774</b>			<b>60971</b>			<b>103554</b>			<b>19232</b>		
<b>Training Devices</b>													
Field Tactical Trainer-Student Station					2026	34	60	2014	33	61			
Basic Skills Trainer		1922	101	19				361	6	60			
Missile Simulation Round								102	74	1			
Fielding		505			204			250					
<b>SubTotal Training Devices</b>		<b>2427</b>			<b>2230</b>			<b>2727</b>					
<b>Gross P-1 End Cost</b>		<b>55637</b>			<b>83446</b>			<b>180713</b>			<b>118055</b>		
Less: Prior Year Adv Proc													
<b>Net P-1 Full Funding Cost</b>													
PLUS P-1 CY Adv. Proc.													
Initial Spares					430								
<b>Total:</b>		<b>55637</b>			<b>83876</b>			<b>180713</b>			<b>118055</b>		

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
February 2007

Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:	P-1 Line Item Nomenclature: JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>All Up Round</b>										
FY 2005	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Apr 05	Feb 07	1038	77	Yes		0503
FY 2006	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Aug 06	Jun 08	199	126	Yes		
FY 2007	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Apr 07	Feb 09	48	129	Yes		
FY 2008	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jan 08	Nov 09	385	132	Yes		
FY 2009	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jan 09	Nov 10	605	134	Yes		
<b>Command Launch Unit</b>										
FY 2005	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Apr 05	Jan 07	1021	119	Yes		0503
FY 2006	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jun 06	Mar 08	102	143	Yes		
FY 2007	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Apr 07	Feb 09	344	145	Yes		
FY 2008	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jan 08	Nov 09	227	133	Yes		
FY 2008	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jan 08	Nov 09	486	133	Yes		
FY 2009	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jan 09	Nov 10	120	152	Yes		

REMARKS: Joint Venture (JV)  
Sole Source/Fixed Price (SS/FP)  
Aviation and Missile Command (AMCOM)

<b>FY 07 / 08 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)	Date: February 2007
--	---	------------------------

COST ELEMENTS						Fiscal Year 07												Fiscal Year 08												Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 07												Calendar Year 08												
						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	

All Up Round																													
1	FY 05	A	1038	0	1038	87	87	87	87	87	87	86	86	86	86	86												0	
1	FY 05	FMS	112	0	112					10	10	10	10	9	9	9	9	9	9	9	9								0
1	FY 05	MC	58	0	58					5	5	5	5	5	5	5	5	5	5	4	4							0	
1	FY 06	A	199	0	199																				17	17	17	17	131
1	FY 07	A	48	0	48							A																48	
1	FY 08	A	385	0	385																					A		385	
1	FY 09	A	605	0	605																							605	

Command Launch Unit																														
3	FY 05	A	1042	0	1042					10	20	20	20	20	85	85	85	75	75	75	75	75	75	75	75	75	76	21	0	
3	FY 05	FMS	150	0	150					13	13	13	13	13	13	12	12	12	12	12	12	12						0		
3	FY 05	MC	10	0	10					1	1	1	1	1	1	1	1	1	1									0		
3	FY 06	A	102	0	102																				9	9	9	9	9	48
3	FY 07	A	344	0	344							A																344		
3	FY 08 GTA	A	486	0	486																					A		486		

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
-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	After 1 Oct
1	JV/All Up Round, Tucson, AZ/Orlando, FL	110	540	670		1	Initial	11	3	22	25		
							Reorder	1	1	22	23		
2	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80		2	Initial	11	3	22	25		
							Reorder	1	1	22	23		
3	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80		3	Initial	11	3	21	24		
							Reorder	1	1	21	22		
							Initial						
							Reorder						
							Initial						
							Reorder						





<b>FY 09 / 10 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)	Date: February 2007
--	---	------------------------

COST ELEMENTS						Fiscal Year 09													Fiscal Year 10													Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09													Calendar Year 10													
						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			

All Up Round																																	
1	FY 05	A	1038	1038																												0	
1	FY 05	FMS	112	112																												0	
1	FY 05	MC	58	58																												0	
1	FY 06	A	199	68	131	17	17	17	16	16	16	16	16																			0	
1	FY 07	A	48	0	48					4	4	4	4	4	4	8	8	8														0	
1	FY 08	A	385	0	385																				33	32	32	32	32	32	32	32	32
1	FY 09	A	605	0	605				A																							605	

Command Launch Unit																																	
3	FY 05	A	1042	1042																													0
3	FY 05	FMS	150	150																													0
3	FY 05	MC	10	10																													0
3	FY 06	A	102	54	48	8	8	8	8	8	8																						0
3	FY 07	A	344	0	344					29	29	29	29	29	29	29	29	28	28	28	28												0
3	FY 08 GTA	A	486	0	486													23	23	23	47	47	47	47	47	47	47	47	47	44	44		

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
-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	JV/All Up Round, Tucson, AZ/Orlando, FL	110	540	670	1	Initial	11	3	22	25	FMS Sales are accumulated in larger quantities in lieu of monthly distribution.  Direct Sales Rounds = 890
						Reorder	1	1	22	23	
2	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80	2	Initial	11	3	22	25	
						Reorder	1	1	22	23	
3	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80	3	Initial	11	3	21	24	
						Reorder	1	1	21	22	
						Initial					
						Reorder					
						Initial					
						Reorder					

**FY 09 / 10 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Date: February 2007

COST ELEMENTS						Fiscal Year 09													Fiscal Year 10													
MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09													Calendar Year 10													Later
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
3	FY 08	A	227	0	227												19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	
3	FY 09	A	120	0	120				A																					120		
Total			4926	2532	2394	25	25	25	24	57	57	49	49	33	33	37	37	36	103	102	102	98	98	98	98	98	98	98	95	819		
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	JV/All Up Round, Tucson, AZ/Orlando, FL	110	540	670		1	Initial	11	3	22	25
							Reorder	1	1	22	23
2	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80		2	Initial	11	3	22	25
							Reorder	1	1	22	23
3	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80		3	Initial	11	3	21	24
							Reorder	1	1	21	22
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 11 / 12 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)	Date: February 2007
--	---	------------------------

COST ELEMENTS						Fiscal Year 11												Fiscal Year 12												Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11												Calendar Year 12												
						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	

All Up Round																												
1	FY 05	A	1038	1038																								0
1	FY 05	FMS	112	112																								0
1	FY 05	MC	58	58																								0
1	FY 06	A	199	199																								0
1	FY 07	A	48	48																								0
1	FY 08	A	385	353	32	32																						0
1	FY 09	A	605	0	605		51	51	51	51	51	50	50	50	50	50	50	50										0

Command Launch Unit																												
3	FY 05	A	1042	1042																								0
3	FY 05	FMS	150	150																								0
3	FY 05	MC	10	10																								0
3	FY 06	A	102	102																								0
3	FY 07	A	344	344																								0
3	FY 08 GTA	A	486	442	44	40																						4

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
-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	2	3			Initial	Reorder				
1	JV/All Up Round, Tucson, AZ/Orlando, FL	110	540	670		1	Initial	11	3	22	25	
							Reorder	1	1	22	23	
2	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80		2	Initial	11	3	22	25	
							Reorder	1	1	22	23	
3	JV/CLU, Tucson,AZ/Orlando,FL	10	70	80		3	Initial	11	3	21	24	
							Reorder	1	1	21	22	
							Initial					
							Reorder					
							Initial					
							Reorder					



**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2007

Appropriation / Budget Activity / Serial No:  
Missile Procurement, Army / 3 / Modification of missiles

P-1 Item Nomenclature  
Patriot Mods (C50700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Patriot Modification Initial Spares, CA0267

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	965.6	76.0	69.6	570.0	47.7	46.0	50.0	25.0	25.0	937.3	2812.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	965.6	76.0	69.6	570.0	47.7	46.0	50.0	25.0	25.0	937.3	2812.3
Initial Spares	146.8	0.6	15.5	9.8	10.9	10.9	7.2	7.0	7.0	90.4	306.2
Total Proc Cost	1112.4	76.7	85.1	579.8	58.7	56.8	57.2	32.0	32.0	1027.7	3118.4
Flyaway U/C											
Weapon System Proc U/C											

**Description:**

The Patriot weapon system growth program implements modifications to the weapon system and maintains Integrated Logistics Support. Required modifications are identified through various means, including the following: Material changes identified in the Patriot Product Improvement Program; corrections identified in the field to include Operation Iraqi Freedom; obsolescence issues; emerging technologies; software improvements and communication upgrades.

**Justification:**

FY08 Base Appropriation 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.  
 FY08 Grow the Army procures equipment for two additional Patriot battalions and completes upgrades for three battalions.

FY 2008 Base Appropriation: \$ 67.479 Million (\$77.277M with Initial Spares)

FY 2008 Grow the Army: \$502.514 Million

Note: FY 2008 Grow the Army includes \$29.3 Million for Initial Spares

FY 2008 Total: \$569.993 Million

<b>Exhibit P-40M, Budget Item Justification Sheet</b>										Date: February 2007	
Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 3 / Modification of missiles					P-1 Item Nomenclature PATRIOT MODS (C50700)						
Program Elements for Code B Items:							Code:		Other Related Program Elements: PATRIOT Modification Initial Spares, CA0267		
Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
RLCEU - Grow the Army											
1-92-03-1233		109.1	0.0	87.3	0.0	0.0	0.0	0.0	0.0	0.0	196.4
RAM MODS											
1-98-03-1249		107.5	20.9	34.8	32.5	26.3	30.2	5.9	5.9	724.4	988.4
Recapitalization											
1-01-01-1252		136.9	46.0	26.2	9.1	13.6	13.6	13.6	13.6	113.9	386.5
Radar Phase III/CDI Phase III - Grow the Army											
1-89-03-1231		151.8	0.0	249.2	0.0	0.0	0.0	0.0	0.0	0.0	401.0
BCP - Grow the Army											
1-97-03-1246		55.4	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	85.4
TCS/BCP - (\$9.1M Grow the Army)											
1-01-01-1251		46.2	2.7	15.6	6.1	6.1	6.2	5.5	5.5	99.0	192.9
Command Launch System - Grow the Army											
0-00-00-0000		0.0	0.0	97.6	0.0	0.0	0.0	0.0	0.0	0.0	97.6
Totals		606.9	69.6	540.7	47.7	46.0	50.0	25.0	25.0	937.3	2348.2

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: RLCEU - Grow the Army [MOD 1] 1-92-03-1233

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	FY03	FY04	FY08
CRG	22	4	5	6	16
ECS	39	6	8	8	16
ICC	12	1		1	4

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	112											5	4	5	4	5	4	5	4		
Outputs	109	3													5	4	5	4	5	4	5

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		148
Outputs	4																	148

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 24 months

Contract Dates: FY 2008 - Dec 2007 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - Jan 2010 FY 2009 - FY 2010 -



**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): RLCEU - Grow the Army [MOD 1] 1-92-03-1233

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
	<b>RD&amp;E</b>																					
<b>Procurement</b>																						
Kit Quantity	112	99.2			36	86.9															148	186.1
Installation Kits																						
Installation Kits, Nonrecurring																						
Equipment																						
Equipment, Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support																						
<b>Installation of Hardware</b>																						
FY 2005 & Prior Equip -- Kits	112	9.9																			112	9.9
FY 2006 -- Kits																						
FY 2007 Equip -- Kits																						
FY 2008 Equip -- Kits					36	0.4															36	0.4
FY 2009 Equip -- Kits																						
FY 2010 Equip -- Kits																						
FY 2011 Equip -- Kits																						
FY 2012 Equip -- Kits																						
TC Equip- Kits																						
Total Installment	112	9.9	0	0.0	36	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	148	10.3
Total Procurement Cost		109.1		0.0		87.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		196.4

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: RAM MODS [MOD 2] 1-98-03-1249

MODELS OF SYSTEM AFFECTED: All GSE

**DESCRIPTION / JUSTIFICATION:**

These modifications provide resolution to field failures which are identified through component analysis, field data collection, obsolescence issues and emerging technologies which are prioritized based on readiness and O&S impacts. This effort includes the engineering, acquisition, qualification testing, installation, technical support and training associated with the modification and is essential to stabilize the system at the highest readiness posture available and reduction of O&S.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):**

Major milestones not applicable.

**Installation Schedule**

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	3356	130	130	58	58	57	57	107	106	106	106	94	93	93	93	66	66	65	65	77	76
Outputs	3226	130	130	130	58	58	57	57	107	106	106	106	94	93	93	93	66	66	65	65	77

  

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	76	76															7697	12908
Outputs	76	76	76														7697	12908

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

6 months

**PRODUCTION LEADTIME:**

6 months

Contract Dates: FY 2008 - Dec 2007

FY 2009 - Dec 2008

FY 2010 - Dec 2009

Delivery Dates: FY 2008 - Jun 2008

FY 2009 - Jun 2009

FY 2010 - Jun 2010

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): RAM MODS [MOD 2] 1-98-03-1249

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RD&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity	3616	94.2	230	13.0	425	26.5	373	23.2	262	17.0	305	20.6					7697	535.9	12908	730.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment		2.5																		2.5
Support Equipment																				
Other				4.1		5.3		5.6		5.5		5.8	5	5.1		5.1		99.1	5	135.6
Interim Contractor Support				0.8		0.8		0.8		0.8		0.8	1	0.8		0.8		15.2	1	20.8
<b>Installation of Hardware</b>																				
FY 2005 & Prior Equip -- Kits	3090	10.8																	3090	10.8
FY 2006 -- Kits			521	3.0															521	3.0
FY 2007 Equip -- Kits					230	2.2													230	2.2
FY 2008 Equip -- Kits							431	2.9											431	2.9
FY 2009 Equip -- Kits									405	3.0									405	3.0
FY 2010 Equip -- Kits											386	3.0							386	3.0
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																	8102	74.2	8102	74.2
Total Installment	3090	10.8	521	3.0	230	2.2	431	2.9	405	3.0	386	3.0	0	0.0	0	0.0	8102	74.2	13165	99.1
Total Procurement Cost		107.5		20.9		34.8		32.5		26.3		30.2		5.9		5.9		724.4		988.4

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: Recapitalization [MOD 3] 1-01-01-1252

MODELS OF SYSTEM AFFECTED: ECS, ICC, LS,CRG

DESCRIPTION / JUSTIFICATION:  
These modifications include communication upgrades, FMTV, training upgrades, and DMPE and are synchronized with the recapitalization program.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):  
Major milestones not applicable.

Installation Schedule

Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	3	1				1				1				1				1		
Outputs	3			1				1				1				1				1

  

1	FY 2012			FY 2013				FY 2014				FY 2015				To Complete	Totals
	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	1				1				1				1			4	16
Outputs			1				1				1				1	4	16

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months  
 Contract Dates: FY 2008 - Mar 2008 FY 2009 - Mar 2009 FY 2010 - Mar 2010  
 Delivery Dates: FY 2008 - Mar 2009 FY 2009 - Mar 2010 FY 2010 - Mar 2011

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): Recapitalization [MOD 3] 1-01-01-1252

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity	4	124.1	1	42.0	1	23.8	1	8.3	1	12.4	1	12.4	1	12.4	1	12.4	5	103.7	16	351.5
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2005 & Prior Equip -- Kits	4	12.8																	4	12.8
FY 2006 -- Kits			1	4.0															1	4.0
FY 2007 Equip -- Kits					1	2.4													1	2.4
FY 2008 Equip -- Kits							1	0.8											1	0.8
FY 2009 Equip -- Kits									1	1.2									1	1.2
FY 2010 Equip -- Kits											1	1.2							1	1.2
FY 2011 Equip -- Kits													1	1.2					1	1.2
FY 2012 Equip -- Kits															1	1.2			1	1.2
TC Equip- Kits																	5	10.2	5	10.2
Total Installment	4	12.8	1	4.0	1	2.4	1	0.8	1	1.2	1	1.2	1	1.2	1	1.2	5	10.2	16	35.0
Total Procurement Cost		136.9		46.0		26.2		9.1		13.6		13.6		13.6		13.6		113.9		386.5

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: Radar Phase III/CDI Phase III - Grow the Army [MOD 4] 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 MILESTONE(S):

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	

Installation Schedule

Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	10													1	3	3	3	3	3		
Outputs	8	2													1	3	3	3	3	3	3

  

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					26
Outputs																					26

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 24 months

Contract Dates: FY 2008 - Dec 2007 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - Jan 2010 FY 2009 - FY 2010 -

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): Radar Phase III/CDI Phase III - Grow the Army [MOD 4] 1-89-03-1231

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity	10	133.6			16	217.2													26	350.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2005 & Prior Equip -- Kits	10	18.2																	10	18.2
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits					16	32.0													16	32.0
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	10	18.2	0	0.0	16	32.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	26	50.2
Total Procurement Cost		151.8		0.0		249.2		0.0		0.0		0.0		0.0		0.0		0.0		401.0

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: BCP - Grow the Army [MOD 5] 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	
Retro			14	10	24	
Dismounted	1		5		6	
<b>TOTAL</b>	<b>24</b>	<b>20</b>	<b>34</b>	<b>10</b>	<b>88</b>	

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):**

Major milestones are not applicable.

**Installation Schedule**

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	88													2	2	2	2				
Outputs	88														2	2	2	2			

  

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		96
Outputs																		96

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

6 months

**PRODUCTION LEADTIME:**

6 months

Contract Dates:

FY 2008 - Dec 2007

FY 2009 -

FY 2010 -

Delivery Dates:

FY 2008 - Mar 2010

FY 2009 -

FY 2010 -



**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): BCP - Grow the Army [MOD 5] 1-97-03-1246

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity	88	46.3																	88	46.3
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					8	29.9													8	29.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other		4.0																		4.0
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2005 & Prior Equip -- Kits	88	5.1																	88	5.1
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits					8	0.1													8	0.1
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	88	5.1	0	0.0	8	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	96	5.2
Total Procurement Cost		55.4		0.0		30.0		0.0		0.0		0.0		0.0		0.0		0.0		85.4

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: TCS/BCP - (\$9.1M Grow the Army) [MOD 6] 1-01-01-1251

MODELS OF SYSTEM AFFECTED: TCP/BCP

DESCRIPTION / JUSTIFICATION:  
Provides for implementation and improvements of the Tactical Information Broadcast Service (TIBS) updates and Integrated Broadcast Service (IBS) HW and SW at the PATRIOT BN. This includes integration of the Joint Tactical Terminal (JTT) and integration of the IBS. Efforts in FY08 and beyond is software integration and interim contractor support.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):  
Major milestones are not applicable.

Installation Schedule

Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	21		3	3									1	1							
Outputs	21			3	3										1	1					

  

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		29
Outputs																		29

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months  
 Contract Dates: FY 2008 - Dec 2007 FY 2009 - FY 2010 -  
 Delivery Dates: FY 2008 - Mar 2010 FY 2009 - FY 2010 -

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): TCS/BCP - (\$9.1M Grow the Army) [MOD 6] 1-01-01-1251

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity	27	29.0			2	9.1													29	38.1
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other (Software)				1.7		3.3		2.9		3.0		3.1		2.8		2.8		39.6		59.2
Interim Contractor Support		11.1		1.0		3.2		3.2		3.1		3.1		2.7		2.7		59.4		89.5
<b>Installation of Hardware</b>																				
FY 2005 & Prior Equip -- Kits	27	6.1																	27	6.1
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	27	6.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	6.1
Total Procurement Cost		46.2		2.7		15.6		6.1		6.1		6.2		5.5		5.5		99.0		192.9

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE: Command Launch System - Grow the Army [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Patriot Launchers

**DESCRIPTION / JUSTIFICATION:**

The Command Launch System includes the Enhanced Launcher Electronics System (ELES) and the Fire Soluton Computer (FSC). The ELES updates the existing PAC-2 missile launcher station, allowing it to fire the PAC-3 missile and increase overall load-out from 4 (PAC-2 launcher) to 16 interceptors per launch station. The FSC upgrades the Engagement Control Station to interface with the PAC-3 launcher station.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):**

**Installation Schedule**

Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>Totals</b>													3	6	6	6	3			
Inputs																				
Outputs													3	6	6	6	6	3		

  

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					24
Outputs																					24

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2008 - Dec 2007

FY 2009 -

FY 2010 -

Delivery Dates: FY 2008 - Mar 2010

FY 2009 -

FY 2010 -

**INDIVIDUAL MODIFICATION**

Date: February 2007

MODIFICATION TITLE (cont): Command Launch System - Grow the Army [MOD 7] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<b>RDT&amp;E</b>																			
<b>Procurement</b>																				
Kit Quantity					24	81.6													24	81.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other						15.8														15.8
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits					24	0.2													24	0.2
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	24	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	24	0.2
Total Procurement Cost		0.0		0.0		97.6		0.0		0.0		0.0		0.0		0.0		0.0		97.6

**Exhibit P-40, Budget Item Justification Sheet**

Date: February 2007

Appropriation / Budget Activity / Serial No:  
Missile Procurement, Army / 3 / Modification of missiles

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	1038.3	121.6	84.0	213.7	7.5	7.2	4.1				1476.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	1038.3	121.6	84.0	213.7	7.5	7.2	4.1				1476.3
Initial Spares											
Total Proc Cost	1038.3	121.6	84.0	213.7	7.5	7.2	4.1				1476.3
Flyaway U/C											
Weapon System Proc U/C											

**Description:**

The Improved Target Acquisition System (ITAS) is a combat proven system that provides long-range, lethal anti-armor and precision assault fires capability for U.S. Army Light Infantry and Stryker Brigade Combat Teams (SBCT). ITAS is a replacement for the Light Infantry's TOW 2 weapon system and provides the capability to defeat armored vehicles and other targets such as bunkers and buildings at extended ranges in all battlefield conditions thus enhancing system lethality and soldier survivability. ITAS is integrated into the Stryker Anti-Tank Guided Missile (ATGM) vehicle of the SBCT anti-tank company and also provides precision assault capability for the SBCT infantry battalions until the Mobile Gun System (MGS) becomes available. ITAS' superior surveillance capability enables the soldier to shape the battlefield by detecting targets at long range and either engaging with TOW missiles or directing the employment of other weapon systems to destroy those targets. ITAS provides the Light Infantry and Stryker BCT with responsive, agile and lethal anti-armor and precision assault fires capability across the spectrum of contemporary operational environment.

**Justification:**

The FY08 Base Appropriation funds 135 ITAS and Mod kits to include batteries and associated retrofits for the various HMMWV FOV.

For FY08, Grow the Army (GTA) funds an additional 224 ITAS and Mod kits to include batteries and associated retrofits for the various HMMWV FOV. The total 359 ITAS and Mod kits support GTA efforts.

The FY 2008 Base Appropriation: \$92.3M.

The FY 2008 Grow the Army: \$121.4M.

The FY 2008 Total: \$213.7M.

<b>Exhibit P-40M, Budget Item Justification Sheet</b>	Date: February 2007
---	---------------------

Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 3 / Modification of missiles	P-1 Item Nomenclature ITAS/TOW MODS (C61700)
--	---

Program Elements for Code B Items:	Code:	Other Related Program Elements:
------------------------------------	-------	---------------------------------

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
ITAS (IMPROVED TARGET ACQUISITION SYSTEM)											
MC-1-89-03-3028	OPERATIONAL	538.5	84.0	213.7	7.5	7.2	4.1	0.0	0.0	0.0	855.0
Totals		538.5	84.0	213.7	7.5	7.2	4.1	0.0	0.0	0.0	855.0

**INDIVIDUAL MODIFICATION**

Date: February 2007

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

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

**DESCRIPTION / JUSTIFICATION:**

The Improved Target Acquisition System (ITAS) is a combat proven system that provides long-range, lethal anti-armor and precision assault fires capability for U.S. Army Light Infantry and Stryker Brigade Combat Teams (SBCT). ITAS is a replacement for the Light Infantry's TOW 2 weapon system and provides the capability to defeat armored vehicles and other targets such as bunkers and buildings at extended ranges in all battlefield conditions thus enhancing system lethality and soldier survivability. ITAS is integrated into the Stryker Anti-Tank Guided Missile (ATGM) vehicle of the SBCT anti-tank company and also provides precision assault capability for the SBCT infantry battalions until the Mobile Gun System (MGS) becomes available. ITAS' superior surveillance capability enables the soldier to shape the battlefield by detecting targets at long range and either engaging with TOW missiles or directing the employment of other weapon systems to destroy those targets. ITAS provides the Light Infantry and Stryker BCT with responsive, agile and lethal anti-armor and precision assault fires capability across the spectrum of contemporary operational environment.

**DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):**

**Installation Schedule**

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	775	46	46	44	32	48	48	34	34	33	33	32	32	32	32	32	65	102	68		
Outputs	650	39	38	36			12	46	46	44	32	48	48	34	34	33	33	32	65	102	68

  

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1568
Outputs	32	32	32	11														1547

**METHOD OF IMPLEMENTATION:**

**ADMINISTRATIVE LEADTIME:**

10 months

**PRODUCTION LEADTIME:**

18 months

Contract Dates:

FY 2008 - Dec 07

FY 2009 -

FY 2010 -

Delivery Dates:

FY 2008 - Jun 09

FY 2009 -

FY 2010 -



**INDIVIDUAL MODIFICATION**

Date: February 2007

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

FINANCIAL PLAN: (\$ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<b>RDT&amp;E</b>																				
<b>Procurement</b>																					
Kit Quantity	927		122		359															1408	
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment		451.2		63.4		168.7															683.3
Fielding		27.3		0.5		1.4		0.5		0.5		0.5									30.7
Project Management				13.8		21.4		6.9		6.6		3.5									52.2
Data		1.3		0.1		0.1		0.1		0.1		0.1									1.8
Training Equipment		31.1		3.3		11.3															45.7
Support Equipment																					
Production Line Restart		3.7																			3.7
Initial Spares		23.9		2.9		10.8															37.6
<b>Installation of Hardware</b>																					
FY 2005 & Prior Equip -- Kits	650		109																		759
FY 2006 -- Kits			4		104		60														168
FY 2007 Equip -- Kits							112		10												122
FY 2008 Equip -- Kits									124		128		107								359
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
FY 2011 Equip -- Kits																					
FY 2012 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	650	0.0	113	0.0	104	0.0	172	0.0	134	0.0	128	0.0	107	0.0	0	0.0	0	0.0	1408	0.0	
Total Procurement Cost		538.5		84.0		213.7		7.5		7.2		4.1		0.0		0.0		0.0			855.0