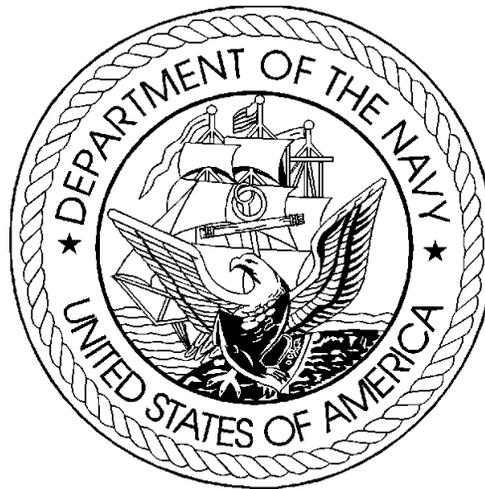


DEPARTMENT OF THE NAVY
FY 1999 AMENDED BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
FEBRUARY 1998

PROCUREMENT, MARINE CORPS
BUDGET ACTIVITY 2:
WEAPONS AND TRACKED COMBAT VEHICLES

Department of the Navy

FY 1999 Procurement Program

Exhibit P-1

APPROPRIATION: 1109N Procurement, Marine Corps

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS						S E C
				-----FY 1997-----		-----FY 1998-----		-----FY 1999-----		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 02: Weapons and Combat Vehicles										

Tracked Combat Vehicles										
1	2021 AAV7A1 PIP	A			10.9		13.2		89.9	U
2	2038 LAV PIP	A			15.6		.6		1.4	U
3	2039 Light Armored Vehicle	A			-		6.5		-	U
4	2063 Modification Kits (Trkd Veh)	A			.3		4.4		5.7	U
5	2105 Items Under \$2M (Trkd Veh)	A			.1		2.0		.1	U
Artillery And Other Weapons										
6	2209 Mod Kits (Artillery)	B			1.7		1.5		1.8	U
7	2210 Items Under \$2M (All Other)	B			.5		.8		.1	U
8	2211 Marine Enhancement Program	B			2.9		1.5		2.1	U
Weapons										
9	2185 155MM Lightweight Towed Howitzer	B			-		-		10.0	U
TOTAL Weapons and Combat Vehicles					32.0		30.4		111.1	

Department of the Navy

FY 1999 Procurement Program - Reserve Component

Exhibit P-1R

APPROPRIATION: 1109N Procurement, Marine Corps

DATE: 01/23/98

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1999 UNIT COST	TOA, \$ IN MILLIONS						
				-----FY 1997-----		-----FY 1998-----		-----FY 1999-----		S
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	C
BUDGET ACTIVITY 02: Weapons and Combat Vehicles										

Tracked Combat Vehicles										
1	2021 AAV7A1 PIP(RESERVE)	A			2.0		2.0		2.0	U
2	2038 LAV PIP(RESERVE)	A			1.1		.1		.2	U
TOTAL Weapons and Combat Vehicles					3.1		2.1		2.2	

Procurement, Marine Corps
Program and Financing (in Thousands of dollars)

Identification code	17-1109-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1997 actual	1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
Program by activities:							
Direct program:							
00.0201	Weapons and combat vehicles	31,960	30,427	111,132	41,251	24,881	104,374
00.0301	Guided missiles and equipment	53,285	66,142	84,041	65,567	58,553	78,557
00.0401	Communications and electronics equipment	325,004	260,973	318,526	311,101	257,710	301,201
00.0501	Support vehicles	28,431	38,599	141,494	22,459	37,282	122,033
00.0601	Engineer and other equipment	99,916	50,794	54,089	92,106	80,515	59,741
00.0701	Spares and repair parts	42,093	26,558	36,576	43,873	21,853	33,460
00.9101	Total direct program	580,689	473,493	745,858	576,357	480,794	699,366
01.0101	Reimbursable program	3,484	9,400	9,400	210	12,884	9,400
10.0001	Total	584,173	482,893	755,258	576,567	493,678	708,766
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-3,484	-9,400	-9,400	-3,324	-9,400	-9,400
17.0001	Recovery of prior year obligations				-18,316		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-109,786	-139,490	-128,705
21.4003	Available to finance new budget plans	-11,407			-11,407		
21.4009	Reprogramming from/to prior year budget plan	3,941					
22.1001	Unobligated balance transferred to other acco	1,100			1,100		
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				139,490	128,705	175,197
25.0001	Unobligated balance expiring	1,159			1,159		
39.0001	Budget authority	575,482	473,493	745,858	575,482	473,493	745,858
Budget authority:							
40.0001	Appropriation	566,926	482,398	745,858	566,926	482,398	745,858
40.7601	Reduction pursuant to P.L. 105-56 (-), 8041		-8,905			-8,905	
41.0001	Transferred to other accounts (-)	-4,000			-4,000		
42.0001	Transferred from other accounts	12,556			12,556		
43.0001	Appropriation (adjusted)	575,482	473,493	745,858	575,482	473,493	745,858

Procurement, Marine Corps
 Program and Financing (in Thousands of dollars)

Identification code	17-1109-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1997 actual	1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
Relation of obligations to outlays:							
71.0001	Obligations incurred				573,243	484,278	699,366
72.4001	Obligated balance, start of year				883,948	719,673	739,383
74.4001	Obligated balance, end of year				-719,673	-739,383	-961,636
77.0001	Adjustments in expired accounts (net)				-118,559		
78.0001	Adjustments in unexpired accounts				-18,316		
90.0001	Outlays (net)				600,643	464,568	477,113

Procurement, Marine Corps
Object Classification (in Thousands of dollars)

Identification code	17-1109-0-1-051	1997 actual	1998 est.	1999 est.

Direct obligations:				
122.001	Transportation of things	2,210	1,396	1,899
125.101	Advisory and assistance services	6,150	7,402	6,822
	Purchases goods/services (inter/intra) Fed accounts			
125.303	Purchases from revolving funds	14,140	12,759	38,703
126.001	Supplies and materials	26,400	23,400	36,300
131.001	Equipment	527,457	435,837	615,642
		-----	-----	-----
199.001	Total Direct obligations	576,357	480,794	699,366
Reimbursable obligations:				
231.001	Equipment	210	12,884	9,400
		-----	-----	-----
299.001	Total Reimbursable obligations	210	12,884	9,400
		-----	-----	-----
999.901	Total obligations	576,567	493,678	708,766

Comparison of FY 1997 Program Requirements as Reflected
in the FY 1998 Budget with the FY 1997 Requirements
as shown in the FY 1999 Budget

DATE: February 1998

Summary of Requirements (In Millions of Dollars)

NOMENCLATURE	Total Program Requirements per FY 1998 Budget	Total Program Requirements per FY 1999 Budget	Increase or decrease (-)
BA 2 WEAPONS & TRACKED COMBAT VEHICLES	31.1	32.0	0.9
BA 3 GUIDED MISSILES & EQUIPMENT	53.4	53.3	-0.1
BA 4 COMMUNICATIONS & ELECTRONICS EQUIPMENT	329.5	325.0	-4.5
BA 5 SUPPORT VEHICLES	28.2	28.4	0.2
BA 6 ENGINEER & OTHER EQUIPMENT	94.9	99.9	5.0
BA 7 SPARES & REPAIR PARTS	42.6	42.1	-0.5
Subtotal Direct Program	579.7	580.7	1.0
Reimbursable	9.4	9.4	0.0
Total Fiscal Year	589.1	590.1	1.0

Comparison of FY 1997 Program Requirements as Reflected
in the FY 1998 Budget with the FY 1997 Requirments
as shown in the FY 1999 Budget

Summary of Requirements (In Millions of Dollars)

2. Weapons and Tracked Combat Vehicles \$.9
All changes were the result of minor execution adjustments \$.9
3. Guided Missiles and Equipment (\$0.1)
All changes were the result of minor execution adjustments (\$0.1)
4. Communications and Electronics Equipment (\$4.5)
All changes were the result of minor execution adjustments (\$4.5)
5. Support Vehicles \$.2
All changes were the result of minor execution adjustments \$.2
6. Engineer and Other Equipment \$5.0
Changes were the result of reprogramming (\$3.2). The remainder is the result of minor execution adjustments (\$1.8)
7. Spares and Repair Parts (\$0.5)
All changes were the result of minor execution adjustments (\$0.5)

Comparison of FY 1997 Financing as Reflected
in the FY 1998 Budget with the FY 1997 Financing
as shown in the FY 1999 Budget

Summary of Requirements (In Millions of Dollars)

Description	Financing per FY 1998 Budget	Financing per FY 1999 Budget
Program Requirements (Total)	589.1	590.1
(Total Direct)	(579.7)	(580.7)
(Total Reimbursable)	(9.4)	(9.4)
Less:		
Anticipated Reimbursements	9.4	9.4
Appropriation Rescinded		0.0
Add:		
Transferred from other accounts	1.0	
Appropriation (Adjusted)		

Comparison of FY 1997 Financing as Reflected
in the FY 1998 Budget with the FY 1997 Financing
as shown in the FY 1999 Budget

Summary of Requirements (In Millions of Dollars)

Explanation of Changes

The change between FY 1998 Presidential Budget to the FY 1999 Presidential Budget is a result of a transfer from Operations and Maintenance, Marine Corp (O&M,MC) to Procurement, Marine Corps (PMC) for Surf Eagle (\$1.0).

Comparison of FY 1998 Program Requirements as Reflected
in the FY 1998 Budget with the FY 1998 Requirements
as shown in the FY 1999 Budget

DATE: February 1998

Summary of Requirements (In Millions of Dollars)

NOMENCLATURE	Total Program Requirements per FY 1998 Budget	Total Program Requirements per FY 1999 Budget	Increase or decrease (-)
BA 2 WEAPONS & TRACKED COMBAT VEHICLES	29.5	30.4	0.9
BA 3 GUIDED MISSILES & EQUIPMENT	46.7	66.1	19.4
BA 4 COMMUNICATIONS & ELECTRONICS EQUIPMENT	217.0	261.0	44.0
BA 5 SUPPORT VEHICLES	9.5	38.6	29.1
BA 6 ENGINEER & OTHER EQUIPMENT	46.6	50.8	4.2
BA 7 SPARES & REPAIR PARTS	24.9	26.6	1.7
Subtotal Direct Program	374.2	473.5	99.3
Reimbursable	9.4	9.4	0.0
Total Fiscal Year	383.6	482.9	99.3

Comparison of FY 1998 Program Requirements as Reflected
in the FY 1998 Budget with the FY 1998 Requirements
as shown in the FY 1999 Budget

Summary of Requirements (In Millions of Dollars)

2. Weapons and Tracked Combat Vehicles \$.9

Items Less Than \$2M received a Congressional increase of \$1.9M for M1A1 Tank Fuel System. The remainder is due to Congressional and minor execution adjustments (\$1.0).

3. Guided Missiles and Equipment \$19.4

The Javelin Program received a Congressional increase of \$17.0. The remainder was due to reprogramming and minor execution adjustments \$2.4.

4. Communications and Electronics Equipment \$44.0

Communications and Electronics Equipment received Congressional increases of \$52.2. The remainder was due to minor execution adjustments and reprogramming (\$8.2).

5. Support Vehicles \$29.1

The Light Tactical Vehicle Remanufacture (LTVR) program received Congressional increase of \$30.0. The remainder was due to minor execution adjustments (-0.9).

6. Engineer and Other Equipment \$4.2

The Field Medical (CBIRF) Program received Congressional increase of \$10.0. The remainder was due to reprogramming and minor execution adjustments (\$5.8).

7. Spares and Repair Parts \$1.7

All changes were the result of minor execution adjustments \$1.7

Comparison of FY 1998 Financing as Reflected
in the FY 1998 Budget with the FY 1998 Financing
as shown in the FY 1999 Budget

Summary of requirements (In millions of Dollars)

Description	Financing per FY 1998 Budget	Financing per FY 1999 Budget
Program Requirements (Total)	383.6	482.9
(Total Direct)	(374.2)	(473.5)
(Total Reimbursable)	(9.4)	(9.4)
Less:		
Anticipated Reimbursements		
Appropriation Rescinded		
Add:		
Transferred from Other Accounts		
Appropriation (Adjusted)		

Comparison of FY 1998 Financing as Reflected
in the FY 1998 Budget with the FY 1998 Financing
as shown in the FY 1999 Budget

Summary of Requirements (In Millions of Dollars)

Explanation of Changes

The increase in program financing represents Congressional Action of the FY 1998 President's Budget. Congressional Increases to high priority Marine Corps Program resulted in increases totaling \$108.1 million. In FY 1998 reductions totaling \$.817 million were due to section 8041; \$7.2 million were due to section 8043 and \$.852 million were due to section 8106.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 001

P-1 Item Nomenclature:

AAV7A1 PIP (P22421)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	17.7			10.9	13.2	89.9	79.9	81.3	72.8	2.5		368.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.7			10.9	13.2	89.9	79.9	81.3	72.8	2.5		368.3
Initial Spares	0.2			0.4	0.5	3.4	1.6	1.6	1.7	0.2		9.6
Total Proc Cost	17.9			11.3	13.7	93.3	81.5	82.9	74.5	2.7		377.9
Flyaway U/C												
Wpn Sys Proc U/C												

The AAV7A1 Product Improvement Program is for the procurement of modification kits/assemblies that have been tested, reviewed and approved by the Marine Corps. These modifications, separate from the AAV RAM/Rebuild to Standard effort, provide significant improvements to vehicular reliability, maintainability, battlefield survivability, combat capability and operational safety.

The AAV RAM/Rebuild to Standard vehicle has been developed to reduce the constantly increasing operational and support costs of the AAV7A1 Family of Vehicles (FOV). The AAV RAM/Rebuild to Standard vehicle incorporates major modifications to the existing vehicle design that specifically address the top three Operational and Support cost drivers of this platform, thereby reducing overall life-cycle costs and providing a cost effective transition from the current AAV to the future AAV.

Specifically, the RAM/Rebuild to Standard Program provides for the replacement of the current AAV engine and suspension with the U.S. Army Bradley Fighting Vehicle derivative components, replaces the transmission and rebuilds the AAV to like-new performance. This program will return the AAV to original performance, reduce the cost of ownership, and maintain combat readiness until replaced by AAV. The Rebuild will be accomplished at Marine Corps Logistics Bases at Albany, Ga. and Barstow, Ca. A total of 680 vehicles will be part of the AAV RAM/RS Program.

Exhibit P-40 Budget Item Justification Sheet			Date	
Appropriation / Budget Activity/Serial No. Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 001			P-1 Item Nomenclature AAV7A1 PIP (P22421)	
Program Elements for Code B Items	Code	Other Related Program Elements		
Modification IRAM	Installing Agent MCLB Albany	Installation Begin: JUL 95	End: SEP 98	End Item AAV7A1 FOV
AAV7A1 Mod Kits	Various	Begin: Various	End: Various	AAV7A1 FOV
SINCGARS Installation Kits	MCLB Albany UNICOR,FMF	Begin: Jan 95	End: Sep 99	AAV7A1 FOV
AAV RAM/Rebuild	MCLB Albany	Begin: Oct 98	End Sep 02	AAV7A1 RAM/Rebuild Vehicles

Exhibit P-40C Budget Item Justification Sheet

Date

February 1998

Appropriation / Budget Activity/Serial No.

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 001

P-1 Item Nomenclature

AAV7A1 PIP (P22421)

Program Elements for Code B Items

Code

Other Related Program Elements

Description

Fiscal Years

OSIP NO. (No P3a S	Classification	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
ITRANS/IRAM										
	5220 RELIABILITY	8.3	9.3	0.0	0.0	0.0	0.0	0.0	0.0	17.6
AAV7A1 FAMILY OF VEHICLES										
	6000 RELIABILITY	0.0	0.0	2.8	2.1	2.2	2.2	2.2	0.0	11.5
AAVP7A1 SINGGARS KITS AND INSTALLATION										
	5266 FACT OF LIFE	1.5	1.2	0.7	0.0	0.0	0.0	0.0	0.0	3.4
AAVC7A1 SINGGARS KITS AND INSTALLATION										
	5266 FACT OF LIFE	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.5
AAVR7A1 SINGGARS KITS AND INSTALLATION										
	5266 FACT OF LIFE	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
AAV RAM/REBUILD										
MOD 6	RELIABILITY	0.0	1.9	74.5	76.0	77.4	68.8	0.0	0.0	298.6
Totals		10.0	12.7	78.1	78.1	79.6	71.0	2.2	0.0	331.8

*Mod Kit Costs Only

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 001			P-1 Line Item Nomenclature: AAV7A1 PIP (P22421)			Weapon System Type:			Date: February 1998		
Weapon System Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
ITRANS/IRAM (ECP 5220)													
ECP 5220 Kits			6550	179	36592	6467	173	37382					
ECP 5220 Installation			1775			2844							
SUBTOTAL ECP 5220			8325			9311							
AAV MOD KITS											2812		
SUBTOTAL AAV MODS											2812		
SINGGARS KITS													
AAVP7A1 Kits			642	200	3210	492	150	3279					
AAVP7A1 Installation			808			748					729		
AAVC7A1 Kits			97	20	4850	84	17	4967					
AAVC7A1 Installation			106			120					82		
AAVR7A1 Kits			20	10	2000	14	7	2000					
AAVR7A1 Installation			34			39					26		
SUBTOTAL SINGGARS KITS			1707			1497					837		
AAV RAM/Rebuild													
Hardware											51155		
Labor											23315		
Facilitization											10035		
Proof of Principle						1913							
D. SUPPORT COSTS													
Factory Training			350			270							
Engineering/Program Mgt Spt			545			200					943		
ILS (Tech Manuals, Training)											837		
TOTAL			10927			13191					89934		
ACTIVE			8927			11191					87934		
RESERVE			2000			2000					2000		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1998

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 001		Weapon System Type:			P-1 Line Item Nomenclature: AAV7A1 PIP (P22421)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
ITRANS/IRAM ECP 5220 KITS										
FY 97	MCLB, ALBANY	ALLOT	MCSC	Oct-96	Oct-96	179	36592	YES	NO	N/A
FY 98	MCLB, ALBANY	ALLOT	MCSC	Oct-97	Oct-97	173	37382	YES	NO	N/A
AAV7A1 MOD KITS										
FY 99	VARIOUS	VAR	VARIOUS	VAR	VAR		VARIOUS	YES	NO	N/A
SINGGARS KITS										
AAVP7A1 KITS										
FY 97	UNICOR	MIPR	MCSC	Nov-96	Aug-97	200	3210	YES	NO	N/A
FY 98	UNICOR	MIPR	MCSC	Nov-97	Aug-98	150	3279	YES	NO	N/A
AAVC7A1 KITS										
FY 97	UNICOR	MIPR	MCSC	Nov-96	Aug-97	20	4850	YES	NO	N/A
FY 98	UNICOR	MIPR	MCSC	Nov-97	Aug-98	17	4967	YES	NO	N/A
AAVR7A1 KITS										
FY 97	UNICOR	MIPR	MCSC	Nov-96	Aug-97	10	2000	YES	NO	N/A
FY 98	UNICOR	MIPR	MCSC	Nov-97	Aug-98	7	2000	YES	NO	N/A
AAV RAM/Rebuild										
FY 99	TBD	FFP CPFF	MCSC	Nov-98	Aug-99	170	300912	YES	NO	N/A

REMARKS:

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: ITRANS/IRAM 5220

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION / JUSTIFICATION:

The AAV7A1 ITRANS/IRAM PIP combines both ECP 2178-R2 (Built-Up Transmission) and ECP 5220 (Improved Reliable and Maintainable Transmission) to provide durability and maintainability while extending the service life of the transmission.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

APPROVED FOR SERVICE USE

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	159	44	44	45	46	44	44	45	40												
Outputs	159	44	44	45	46	44	44	45	40												

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		511
Outputs																		511

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

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

Delivery Date: FY 1997 OCT 96 FY 1998 OCT 97 FY 1999

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE (Cont): ITRANS/IRAM 5220

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	159		179		173														511	
Inst Kits, Nonrecurring		5.696		6.550		6.467														18.713
Equipment, Nonrecurring																				
ECO																				
Other																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits	159	2.485																	159	2.485
FY 1997 Eqpt -- Kits			179	1.775															179	1.775
FY 1998 Eqpt -- Kits					173	2.844													173	2.844
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Installment Cost		2.485		1.775		2.844													511	7.104
Total Procurement Cost		8.181		8.325		9.311														25.817

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: AAV7A1 MODIFICATION KITS AND SECONDARY REPAIRABLES 6000

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION / JUSTIFICATION:

The AAV7A1 Modification Kits Program is for the procurement of modification kits/assemblies that have been tested, reviewed and approved by the Marine Corps. These modifications are separate from AAV RAM Rebuild and provide significant improvements to vehicular reliability, maintainability, and operational safety. These modifications are also a method by which Fleet Marine Forces (FMF) Quality Deficiency Reports and Beneficial Suggestions are implemented.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

APPROVED FOR SERVICE USE

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs									VARIOUS				VARIOUS				VARIOUS			
Outputs									VARIOUS				VARIOUS				VARIOUS			

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	VARIOUS				VARIOUS													
Outputs	VARIOUS				VARIOUS													

METHOD OF IMPLEMENTATION: FIELD _____ ADMINISTRATIVE LEADTIME: _____ VAR Months PRODUCTION LEADTIME: VAR Months
 Contract Dates: _____
 Delivery Date: _____

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE (Cont): AAV7A1 FAMILY OF VEHICLES

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Inst Kits, Nonrecurring								2.812		2.110		2.210		2.210		2.198					11.540
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cost								2.812		2.110		2.210		2.210		2.198					11.540

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: AAVP7A1 SINGARS KITS AND INSTALLATION 5266

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION / JUSTIFICATION:

The new Single Channel Ground and Air Radio System (SINGARS) VHF combat net radio system replaces the older AN/VRC-12 Family of radios. SINGARS provides communications in a high jam environment. Installation of SINGARS in the AAV7A1's will allow embarked command staff, embarked troop commanders, and vehicle crews to maintain communications within the chain of command.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

APPROVED FOR SERVICE USE

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	601	50	50	50	50	45	45	45	45	43	43	42	42								
Outputs	601	50	50	50	50	45	45	45	45	43	43	42	42								

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1151
Outputs																		1151

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 1997 NOV 96 FY 1998 NOV 97 FY 1999 N/A
 Delivery Date: FY 1997 AUG 97 FY 1998 AUG 98 FY 1999 N/A

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): AAVP7A1 SINCGARS KITS AND INSTALLATION 5266

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	801		200		150														1151		
Inst Kits, Nonrecurring		2.438		0.642		0.492															3.572
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	601	2.435	200	0.808															801	3.243	
FY 1997 Eqpt -- Kits					180	0.748	20	0.085											200	0.833	
FY 1998 Eqpt -- Kits							150	0.644											150	0.644	
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost		2.435		0.808		0.748		0.729											1151	4.720	
Total Procurement Cost		4.873		1.450		1.240		0.729													8.292

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: AAVC7A1 SINCGARS KITS AND INSTALLATION 5266

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION / JUSTIFICATION:

The new Single Channel Ground and Air Radio System (SINCGARS) VHF combat net radio system replaces the older AN/VRC-12 Family of radios. SINCGARS provides communications in a high jam environment. Installation of SINCGARS in the AAV7A1's will allow embarked command staff, embarked troop commanders, and vehicle crews to maintain communications within the chain of command.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

APPROVED FOR SERVICE USE

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	44	6	6	5	5	6	6	6	6	5	5	6									
Outputs	44	6	6	5	5	6	6	6	6	5	5	6									

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		106
Outputs																		106

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 1997 Nov 96 FY 1998 Nov 97 FY 1999 N/A
 Delivery Date: FY 1997 Aug 97 FY 1998 Aug 98 FY 1999 N/A

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): AAVC7A1 SINGARS KITS AND INSTALLATION 5266

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	69		20		17														106		
Inst Kits, Nonrecurring		0.319		0.097		0.084															0.500
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	44	0.021	22	0.106	3	0.015													69	0.142	
FY 1997 Eqpt -- Kits					20	0.100													20	0.100	
FY 1998 Eqpt -- Kits					1	0.005	16	0.082											17	0.087	
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost		0.021		0.106		0.120		0.082											106	0.329	
Total Procurement Cost		0.340		0.203		0.204		0.082													0.829

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: AAVR7A1 SINGGARS KITS AND INSTALLATION 5266

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION / JUSTIFICATION:

The new Single Channel Ground and Air Radio System (SINGGARS) VHF combat net radio system replaces the older AN/VRC-12 Family of radios. SINGGARS provides communications in a high jam environment. Installation of SINGGARS in the AAV7A1's will allow embarked command staff, embarked troop commanders, and vehicle crews to maintain communications within the chain of command.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

APPROVED FOR SERVICE USE

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																					
Inputs	33	3	3	3	2	3	3	3	3	3	3	2									
Outputs	33	3	3	3	2	3	3	3	3	3	3	2									

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		64
Outputs																		64

METHOD OF IMPLEMENTATION: Depot/Contractor ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 1997 Nov 96 FY 1998 Nov 97 FY 1999 N/A
 Delivery Date: FY 1997 Aug 97 FY 1998 Aug 98 FY 1999 N/A

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): AAVR7A1 SINGARS KITS AND INSTALLATION 5266

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	47	00.089	10		7														64	00.089	
Inst Kits, Nonrecurring				0.020		0.014														0.034	
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	33	0.098	11	0.034	3	0.010													47	0.142	
FY 1997 Eqpt -- Kits					9	0.029	1	0.003											10	0.032	
FY 1998 Eqpt -- Kits							7	0.023											7	0.023	
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost		0.098		0.034		0.039		0.026											64	0.197	
Total Procurement Cost		0.098		0.054		0.053		0.026												0.231	

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: AAV RAM/REBUILD

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHILCES

DESCRIPTION / JUSTIFICATION:

RAM/REBUILD: Major system modifications to the vehicle in the areas of engine and suspension compensate for the degraded vehicle performance brought about by age and weight growth. These major modifications have demonstrated substantial savings in operational support dollars through enhanced reliability, maintainability, and durability. The Marine Corps budget already assumes these savings. This program maintains a combat ready fleet of vehicles as the U. S. Marine Corps transitions from the AAV to the AAVV for its primary amphibious capability assets.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

DT II completed in early Dec 97. Proof of Principle planned for Jan through Apr 98.
DT III/OT III scheduled in Jun through Aug 98 with MS III decision targeted Oct 98.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs							4				85	85								
Outputs							4				85	85								

Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		174
Outputs																		174

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 0 Months

PRODUCTION LEADTIME: 9 Months

Contract Dates:

FY 1999

Delivery Date:

FY 1999

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): AAV RAM/REBUILD

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity							170		170		170		170						680		
Inst Kits, Nonrecurring								51.155		52.193		52.998		48.343							204.689
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits					*4	1.913															1.913
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits							170	23.315											170	23.315	
FY 2000 Eqpt -- Kits									170	23.840									170	23.840	
FY 2001 Eqpt -- Kits											170	24.359							170	24.359	
FY 2002 Eqpt -- Kits													170	20.476					170	20.476	
FY 2003 Eqpt -- Kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost						1.913		23.315		23.840		24.359		20.476						680	93.903
Total Procurement Cost						1.913		74.470		76.033		77.357		68.819							298.592

*FY 98 Proof of Principle hardware represents reutilization of previously procured equipment.

Exhibit P-40, Budget Item Justification Sheet

Date:

September 1997

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 002

P-1 Item Nomenclature:

LAV PIP (P22378)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	52.1			16.0	0.6	1.4	1.7	1.3	1.7	10.3	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	52.1			16.0	0.6	1.4	1.7	1.3	1.7	10.3	Cont	Cont
Initial Spares	0.7			0.2	0.5			0.6	0.1	0.1	Cont	Cont
Total Proc Cost	52.1			16.2	1.1	1.4	1.7	1.9	1.8	10.4	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

FY 1994-1997 LAV-25 THERMAL SIGHT:

The LAV-25 Thermal Sight will significantly enhance effectiveness of reconnaissance and accuracy by providing the LAV gunner a state-of-the-art thermal imaging capability. Night fighting will be greatly enhanced. A greater range and sharper image through battlefield obscuration will also be obtained. This PIP replaces the gunner's M36 Fire Control Periscope. This buy will provide thermal sights to each LAV-25 including operator and maintenance training at formal schools.

MODIFICATION: LAV-25 Thermal Sight INSTALLING AGENT: TACOM, Warren, MI INSTALLATION: Begin Jul 96, End Sep 97 END ITEM: LAV-25

FY 1996-1997 LAV MOBILITY BLOCK IMPROVEMENT PROGRAM:

The cornerstone of the LAV Mobility Block Improvement Program is the remanufacture of the LAV Green Series engine to the Silver Series configuration. The upgraded Silver Series Engine will provide increased performance and service life, at reduced operating and support costs to the Fleet Marine Force and the supporting establishment. Other equipment to be procured under the Mobility Block Improvement Program include: Silver Series Engine Installation Kits, Brake Upgrade Kits, Engine Test Stands, Engine Swim Covers, Improved Steering Bearings, Wheel Alignment Equipment, and Portable Tire Mounters/Demounters.

MODIFICATION: Mobility Enhancement INSTALLING AGENT: Various INSTALLATION: Begin Jan 97, End Jan 99 END ITEM: LAV Family of Vehicles

Exhibit P-40, Budget Item Justification Sheet

Date:

September 1997

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 002

P-1 Item Nomenclature:

LAV PIP (P22378)

FY 1996-2003 LAV RELIABILITY, AVAILABILITY, MAINTAINABILITY (RAM) IMPROVEMENTS

Projects funded under the LAV RAM Program include the Sub-Caliber Device (allows for LAV Gunnery qualifications utilizing the less expensive 7.62mm ammunition in place of the more expensive 25mm ammunition), Gun Barrel Bore Gage (allows for more efficient 25mm cannon maintenance), and numerous minor modifications and tools to which will ultimately increase LAV readiness while simultaneously reducing LAV operations and support costs.

MODIFICATION: Various INSTALLING AGENT: Various INSTALLATION: Begin Various, End Various END ITEM: LAV Family of Vehicles

AUSTRALIAN LAV REBUY:

PM, LAV is procuring 8 LAVs from the Australian government, through Diesel Division, General Motors to fill combat and other asset losses at an economical price.

LAV APPLIQUE ARMOR:

Light Armored Vehicle Applique Armor Kits provide a cost-effective lightweight armor enhancement to the LAV Family of Vehicles. The Applique Armor Kits consist of attachment and removal of ceramic matrix armor tiles that improve the ballistic protection of the LAV's hull structure.

MODIFICATION: LAV Applique Armor Kits INSTALLING AGENT: Field Units INSTALLATION: Begin Oct 99, End Nov 99 END ITEM: LAV FOV

Exhibit P-40C Budget Item Justification Sheet

Date
September 1997

Appropriation / Budget Activity/Serial No. Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 002 P-1 Item Nomenclature LAV PIP (P22378)

Program Elements for Code B Items Code Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total	

LAV-25 THERMAL SIGHT											
	1 Performance	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
LAV MOBILITY BLOCK IMPROVEMENT PROGRAM											
	2 Mobility	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5
LAV RELIABILITY, AVAILABILITY & MAINTAINABILITY											
	3 Maintenance	0.6	0.6	1.4	1.7	1.3	1.7	2.0	Cont	Cont	
LAV Applique Armor											
	4 Mod	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
Australian LAV Rebuy											
	5 Rebuy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
LAV SLEP											
	6 SLEP	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3
Totals		16.0	0.6	1.4	1.7	1.3	1.7	10.3	0.0	0.0	45.1

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 002			P-1 Line Item Nomenclature: LAV PIP (P22378)			Weapon System Type:			Date: September 1997		
Weapon Svstem Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
LAV-25 THERMAL SIGHT PROGRAM	A												
Training/Training Material:													
Installation			200										
Government Engineering			190										
Engineering Change Order:			42										
ILS													
SUBTOTAL			432										
MOBILITY BLOCK IMPROVEMENT PROGRAM HARDWARE	A		5883	Block	VAR								
Support/Test Equipment													
Initial Production Test			290										
Installation/Fielding Support			333										
Government Engineering			109										
Engineering Change Order:													
SUBTOTAL			6615										
LAV RAM IMPROVEMENTS	A		444	Block	VAR	427	Block	VAR	1232	Block	VAR		
Government Engineering			168			173			178				
SUBTOTAL			612			600			1410				
AUSTRALIAN LAV REBUY Refurbishment													
SUBTOTAL													
LAV APPLIQUE ARMOR			7100	156	45513								
First Article Test			446										
New Equipment Training			160										
Government Engineering			266										
Engineering Change Order:			328										
TOTAL			15959			600			1410				
Active			(14872)			(510)			(1198)				
Reserve			(1087)			(90)			(212)				

Exhibit P-5a, Budget Procurement History and Planning

Date:
September 1997

Appropriation / Budget Activity/Serial No:
Procurement, Marine Corps (1109) / Weapons and Tracked Combat
Vehicles (2) / 002

Weapon System Type:

P-1 Line Item Nomenclature:
LAV PIP (P22378)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
MOBILITY BLOCK IMPROVEMENT PROGRAM										
FY 97	VARIOUS	VARIOUS	VARIOUS	VAR	VAR	VAR	VAR	YES		VAR
LAV RAM IMPROVEMENTS										
FY 97	VARIOUS	VARIOUS	VARIOUS	VAR	VAR	VAR	VAR	NO		VAR
FY 98	VARIOUS	VARIOUS	VARIOUS	VAR	VAR	VAR	VAR	NO		VAR
FY 99	VARIOUS	VARIOUS	VARIOUS	VAR	VAR	VAR	VAR	NO		VAR
LAV APPLIQUE ARMOR FY 97	TBD (Competition Sensitive)	C/FP	TACOM, WARREN, MI	Jul-97	Jul-98	156	45513	YES		

REMARKS:

INDIVIDUAL MODIFICATION

Date September 1997

MODIFICATION TITLE: LAV-25 THERMAL SIGHT 0001

MODELS OF SYSTEMS AFFECTED: LAV-25

DESCRIPTION / JUSTIFICATION:

The LAV-25 Thermal Sight will significantly enhance effectiveness of reconnaissance and weapons employment by providing the LAV-25 Gunner a state-of-the-art thermal imaging capability. Night fighting capability will be greatly enhanced. A greater and sharper image through smoke obscurance will also be obtained.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Full Operational Capability (FOC) scheduled for 3rd Quarter, FY 1997.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	240	61	61	60																	
Outputs	240	61	61	40	20																

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					422
Outputs																					422

METHOD OF IMPLEMENTATION: PM-LAV INST TEAM ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 7 Months
 Contract Dates: FY 1997 NA FY 1998 NA FY 1999 NA
 Delivery Date: FY 1997 NA FY 1998 NA FY 1999 NA

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): LAV-25 THERMAL SIGHT 0001

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	422																			422	
Inst Kits, Nonrecurring		31.949																			31.949
Equipment, Nonrecurring																					
Data																					
Training Support		0.338																			0.338
Support Equipment		4.406																			4.406
ECO		0.978		0.042																	1.020
Interim Maintenance Support		0.155																			0.155
Government Engineering		0.375		0.190																	0.565
Other		0.774																			0.774
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	240	0.948	182	0.200																422	1.148
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost		0.948		0.200																422	1.148
Total Procurement Cos		39.923		0.432																	40.355

INDIVIDUAL MODIFICATION

Date September 1997

MODIFICATION TITLE: LAV MOBILITY BLOCK IMPROVEMENT PROGRAM 0002

MODELS OF SYSTEMS AFFECTED: LAV Family of Vehicles (All LAV's)

DESCRIPTION / JUSTIFICATION:

The cornerstone of the LAV Mobility Block Improvement Program (LAV MBIP) is the remanufacture of the diesel engine which have been operating in the Marine Corps existing LAV Fleet since the early 1980's. These engines, commonly referred to as the "Green" engine, are no longer in production, with repairs becoming more frequent and costly. These "Green" engines will be upgraded to the "Silver Series" configuration which will provide for a significant reduction in future operations and support costs.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Milestone III - May, 1996
Presently Fielding MBIP components.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: FIELD ADMINISTRATIVE LEADTIME: Various Months PRODUCTION LEADTIME: Various Months
 Contract Dates: FY 1997 Various FY 1998 FY 1999
 Delivery Date: FY 1997 Various FY 1998 FY 1999

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): LAV MOBILITY BLOCK IMPROVEMENT PROGRAM 0002

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	Block		Block																		
Inst Kits, Nonrecurring																					
Equipment, Nonrecurring		8.009		5.883																	13.892
Government Engineering		0.393		0.333																	0.726
ECO		0.258		0.109																	0.367
Other		0.388																			0.388
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits		0.880																			0.880
FY 1997 Eqpt -- Kits				0.290																	0.290
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost		0.880		0.290																	1.170
Total Procurement Cost		9.928		6.615																	16.543

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: LAV RELIABILITY, AVAILABILITY & MAINTAINABILITY 0003

MODELS OF SYSTEMS AFFECTED: LAV Family of Vehicles (All LAV's)

DESCRIPTION / JUSTIFICATION:

The LAV Reliability, Availability, and Maintainability (RAM) Improvement Program consists of numerous minor modifications to the LAV Family of Vehicles that will increase LAV readiness, streamline maintenance procedures, and reduce LAV operations and support costs. Examples of LAV RAM projects include: (FY96) Sub-Caliber Live Fire Training Device, LAV Gun Barrel Bore Wear Gage; (FY97) Portable Fuel Filtration Device, Snap-ring Maintenance Pliers, Ball-Joint Tool; (FY98) Long-Stroke Recoil Mechanism.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Projects within the LAV RAM Program have not proceeded through the traditional milestone process. Individual projects are analyzed for cost and benefit purposes, then are prioritized according to their relative returns on investment to the Marine Corps.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

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

METHOD OF IMPLEMENTATION: Field **ADMINISTRATIVE LEADTIME:** Various Months **PRODUCTION LEADTIME:** Various Months
Contract Dates: FY 1997 Various FY 1998 Various FY 1999 Various
Delivery Date: FY 1997 Various FY 1998 Various FY 1999 Various

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): LAV RELIABILITY, AVAILABILITY & MAINTAINABILITY 0003

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	Block		Block		Block		Block		Block		Block		Block		Block		Block				
Inst Kits, Nonrecurring																					
Equipment, Nonrecurring		0.603		0.444		0.427		1.232		1.521		1.132		1.468		1.766		Cont		Cont	
ECO																					
Other		0.065		0.168		0.173		0.178		0.183		0.189		0.194		0.200		Cont		Cont	
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cost		0.668		0.612		0.600		1.410		1.704		1.321		1.662		1.966		Cont		Cont	

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: LAV Applique Armor 0004

MODELS OF SYSTEMS AFFECTED: LAV Family of Vehicles

DESCRIPTION / JUSTIFICATION:

Light Armored Vehicle Applique Armor kits provide a cost-effective lightweight armor enhancement to the LAV Family of vehicles. The armor kit consists of removal of ceramic matrix armor tiles that improve the ballistic protection of the LAV's hull structure.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs								39	39	39	39									
Outputs								39	39	39	39									

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		156
Outputs																		156

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 9 Months

PRODUCTION LEADTIME: 12 Months

Contract Dates: FY 1997 July-97 FY 1998 Enter Date FY 1999 Enter Date

Delivery Date: FY 1997 July-98 FY 1998 Enter Date FY 1999 Enter Date

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): LAV Applique Armor 0004

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity			156																156	
Inst Kits, Nonrecurring				8.300																8.300
Equipment, Nonrecurring																				
ECO																				
Other																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Installment Cost																				
Total Procurement Cost				8.300																8.300

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 003

P-1 Item Nomenclature:

LAV (P22368)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	17											17
Gross Cost	72.2				6.5							78.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	72.2				6.5							78.7
Initial Spares												
Total Proc Cost	72.2				6.5							78.7
Flyaway U/C												4.6
Wpn Sys Proc U/C	4											4.6

The LAV-AD will provide a highly mobile air defense capability for LAV equipped units and other rapid maneuver elements of the MAGTF. The LAV-AD will incorporate within the MAGTF and integrated ground bases a mobile air defense system capable of countering enemy air-to-surface threat systems, both rotary and fixed wing. The LAV-AD will include an air defense turret installed on the standard LAV chassis. FY94 funds provided for the procurement of 17 LAV-AD end items. FY98 funds will provide for comprehensive production testing.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 003			P-1 Line Item Nomenclature: LAV (P22368)			Weapon System Type:			Date: February 1998		
Weapon System Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
LAV AIR DEFENSE IPT													
GENERAL DYNAMICS ORDNANCE													
FIELDING SUPPORT/CONTRACTOR TRAINING						698							
INITIAL PRODUCTION TEST/ CORRECTION OF DEFICIENCIES						1327							
SUBTOTAL						2025							
INITIAL PRODUCTION TEST						3914							
GOVERNMENT FIELDING SUPPORT						602							
TOTAL						6541							

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 004

P-1 Item Nomenclature:

MODIFICATION KITS (TRACKED VEHICLES) (P22723)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	23.1			0.3	4.4	5.7	20.6	16.2	19.0	2.0	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.1			0.3	4.4	5.7	20.6	16.2	19.0	2.0	Cont	Cont
Initial Spares	1.2				0.3		1.4		1.2	2.3		7.5
Total Proc Cost	24.3			0.3	4.7	5.7	22.0	16.2	20.2	4.3	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

The following modifications to Marine Corps tracked vehicles are being procured in this budget line:

SELF CLEANING AIR FILTER (SCAF):

This system will improve the RAM of the M1A1 tank by continuously cleaning the air filters. This will provide cleaner air to the turbine engine and will lengthen the time between operational failures.

AVLB BRIDGE UPGRADE:

This program upgrades the scissor bridge from military load class (MLC) 60 to MLC 70 at full span.

ARMORED VEHICLE DRIVERS THERMAL VIEWER ENHANCER (AVDVE):

Provides armored vehicles with the capability to operate at night, during conditions of rain and fog as well as under battlefield conditions where obscurants are present.

MUZZLE BORESIGHT DEVICE:

Item will allow M1A1 tank to achieve boresight in garrison and on the battlefield. It will increase the ability of tanks to hit targets at extended ranges.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 004

P-1 Item Nomenclature:

MODIFICATION KITS (TRACKED VEHICLES) (P22723)

CONDUCT OF FIRE TRAINER (COFT) UPGRADE:

Upgrades COFT device with a new graphics generator and current computer technology. This will increase the usability and RAM for the system. It will allow for reduction of rounds used by tank battalions.

INBORE SUBCALIBER TRAINING DEVICE:

A training device that, when applied to the M1A1 tank, allows it to fire a .50 caliber round to simulate the firing of the tank maingun. This will maintain the combat capabilities of a tank crew despite reductions in tank maingun munitions.

TANK UPGRADES:

This program will upgrade 48 M1A1 Army tanks to Marine Corps configuration for transfer to Marine Corps units.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1998

Appropriation / Budget Activity/Serial No.

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 004

P-1 Item Nomenclature

MODIFICATION KITS (TRACKED VEHICLES) (P22723)

Program Elements for Code B Items

Code

Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total	
SELF CLEANING AIR FILTER											
1	RAM	0.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	4.0	
AVLB BRIDGE UPGRADE											
2	MOBILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AVDVE											
4	MOBILITY	0.0	0.0	4.3	15.2	15.1	18.0	0.2	0.0	52.8	
MUZZLE BORESIGHT DEVICE											
5	FIREPOWER	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.7	
COFT											
6	TRAINING	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	
INBORE SUBCAL TRAINING DEVICE											
7	TRAINING	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
DUAL AXIS HEAD ASSEMBLY (No P3a Set)											
8		0.0	0.0	0.0	5.4	1.1	0.9	1.8	0.0	9.2	
Totals		0.3	4.3	5.7	20.6	16.2	18.9	2.0	0.0	68.0	

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 004			P-1 Line Item Nomenclature: MODIFICATION KITS (TRACKED VEHICLES) (P22723)			Weapon System Type:			Date: February 1998		
Weapon Svstem Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
SELF CLEANING AIR FILTER		A	295			3724	98	38000					
CONTRACTOR SUPPORT SERVICES			24			67							
AVDVE		A							4300	210	20475		
CONTRACTOR SUPPORT SERVICES		A							18				
MUZZLE BORESIGHT DEVICE		A				198	55	3600	508	141	3603		
CONDUCT OF FIRE TRAINER		A							900	6	150000		
INBORE SUBCAL TRAINING DEVICE		A				384	64	6000					
Note; FY 97 BUY SCAF ACCESSORIES													
TOTAL			319			4373			5726				

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1998

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 004				Weapon System Type:		P-1 Line Item Nomenclature: MODIFICATION KITS (TRACKED VEHICLES) (P22723)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
SELF CLEANING AIR FILTER FY 97 FY 98	GEN DYNAMICS LAND SYS WARREN MI	SS/FFPO SS/FFPO	TACOM TACOM	Oct-97 Feb-98	Nov-97 Mar-98	VAR 98	VAR 38000	Y	N	N/A
AVDVE FY 99	TEXAS INSTRUMENTS MCKINNEY, TX	C/FFPO	CECOM	Oct-98	Oct-99	210	20475	Y	N	N/A
MUZZLE BORESIGHT DEVICE FY 98 FY 99	ACALA	MIPR MIPR	TACOM TACOM	Feb-98 Oct-98	May-98 Jan-99	55 141	3600 3603	Y	N	N/A
CONDUCT OF FIRE TRAINER FY 99	Unknown	C/FFP	STRICOM	Nov-98	Jan-99	6	150000	Y	N	N/A
INBORE SUBCAL TRAINING DEVICE FY 98	Unknown	C/FFP	MARCORSYSCOM	Mar-98	Jun-98	64	6000	N	N	N/A

REMARKS:

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: SELF CLEANING AIR FILTER 1

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION / JUSTIFICATION:

This system will improve the RAM of the M1A1 tank by continuously cleaning the air filters. This will provide cleaner air to the turbine engine and will lengthen the time between operational failure.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	45	VAR	VAR	VAR	VAR		20	60	18													
Outputs	45	VAR	VAR	VAR	VAR		20	60	18													

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4							
Inputs																							143
Outputs																							143

METHOD OF IMPLEMENTATION: DEPOT/FIELD ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 4 Months

Contract Dates: FY 1997 OCT97 FY 1998 FEB98 FY 1999

Delivery Date: FY 1997 NOV 97 FY 1998 MAR98 FY 1999

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): SELF CLEANING AIR FILTER 1

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	218				98															316	
Inst Kits, Nonrecurring		8.180		0.295		3.724															12.199
Equipment, Nonrecurring																					
ECO																					
Other		0.065		0.024		0.067															0.156
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos		8.245		0.319		3.791															12.355

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: AVLB BRIDGE UPGRADE 2

MODELS OF SYSTEMS AFFECTED: AVLB

DESCRIPTION / JUSTIFICATION:

This program upgrades the scissor bridge from military load class (MLC) 60 to MLC 70 at full span.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	30																			
Outputs		30																		

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		30
Outputs																		30

METHOD OF IMPLEMENTATI DEPOT ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 9 Months
 Contract Dates: FY 1997 FY 1998 FY 1999
 Delivery Date: FY 1997 FY 1998 FY 1999

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): AVLB BRIDGE UPGRADE 2

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	30																			30	
Inst Kits, Nonrecurring		2.769																			2.769
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos		2.769																			2.769

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE (Cont): AVDVE 4

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity							210		757		755		895		12				2629		
Inst Kits, Nonrecurring							4.300		15.186		15.148		17.952		0.253						52.839
Equipment, Nonrecurring																					
ECO																					
Other							0.018														0.018
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cost							4.318		15.186		15.148		17.952		0.253						52.857

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: MUZZLE BORESIGHT DEVICE 5

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION / JUSTIFICATION:

Item will allow M1A1 tank to achieve boresight in garrison and on the battlefield. It will increase ability of tanks to hit targets at extended ranges.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs					(End Item Procurement)															
Outputs						50	50	50	100	100	55									
(END ITEMS)																				
	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				
Outputs																				405

METHOD OF IMPLEMENTATION: DEPOT/FIELD **ADMINISTRATIVE LEADTIME:** 1 Months **PRODUCTION LEADTIME:** 2 Months
Contract Dates: FY 1997 FY 1998 FEB 98 FY 1999 OCT 98
Delivery Date: FY 1997 FY 1998 MAY 98 FY 1999 JAN 99

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): MUZZLE BORESIGHT DEVICE 5

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity					55		141												196		
Inst Kits, Nonrecurring						0.198		0.508													0.706
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos						0.198		0.508													0.706

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: COFT 6

MODELS OF SYSTEMS AFFECTED: CONDUCT OF FIRE TRAINERS

DESCRIPTION / JUSTIFICATION:

Upgrades COFT device with a new graphics generator and current computer technology. This will increase the usability and RAM for the system. It will allow for reduction of rounds used by tank battalions.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals									6											
Inputs																				
Outputs											6									

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					6
Outputs																					6

METHOD OF IMPLEMENTATION: CONTRACTOR ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 1 Months
 Contract Dates: FY 1997 FY 1998 FY 1999 NOV 98
 Delivery Date: FY 1997 FY 1998 FY 1999 JAN 99

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): COFT 6

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity							6													6	
Inst Kits, Nonrecurring								0.900													0.900
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos								0.900													0.900

INDIVIDUAL MODIFICATION

Date February 1998

MODIFICATION TITLE: **INBORE SUBCAL TRAINING DEVICE 7**

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION / JUSTIFICATION:

This is a training device that when applied to the M1A1 tank allows it to fire a .50 caliber round to simulate the firing of the tank maingun. This will allow current reductions in tank maingun munitions to have little impact on the combat capabilities of a tank crew.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs					(End Item procurement)															
Outputs								20	20	24										

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		64

METHOD OF IMPLEMENTATION: FIELD ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 2 Months
 Contract Dates: FY 1997 FY 1998 MAR 98 FY 1999
 Delivery Date: FY 1997 FY 1998 JUN 98 FY 1999

INDIVIDUAL MODIFICATION

Date

February 1998

MODIFICATION TITLE (Cont): INBORE SUBCAL TRAINING DEVICE 7

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity					64															64	
Inst Kits, Nonrecurring						0.384															0.384
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos						0.384															0.384

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 005

P-1 Item Nomenclature:

ITEMS LESS THAN \$2 MILLION (TRKD VEH) (P22820)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost				0.5	2.0	0.1	0.1	0.1			Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				0.5	2.0	0.1	0.1	0.1			Cont.	Cont.
Initial Spares												
Total Proc Cost				0.5	2.0	0.1	0.1	0.1			Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												

M1A1 Tank

Funding is provided to procure a Halon Recovery / Recharging System for the M1A1 Main Battle Tank and other armored vehicles in the USMC inventory. There is a federal requirement within law that requires equipment to recover unused Halon 1301 (a fire suppression agent) from the fire extinguishing system and to recharge the system with either Halon or other agents to ensure that the fire suppression system is ready for the rigors of combat.

Funding for tools/test is to enhance the existing kits within the USMC inventory with improved, state of the art, electronics and tools for units that have been added/changed due to T/O and T/E changes.

Funding is provided for purchase of Supplemental Fuel Carrying System. The system will increase cruising range of the armored vehicles.

Funding is provided for Factory Training for the LAV-AD.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 005			P-1 Line Item Nomenclature: ITEMS LESS THAN \$2 MILLION (TRKD VEH) (P22820)			Weapon System Type:			Date: February 1998		
Weapon System Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
HALON RECOVERY / RECHARGING SYSTEM			89	13	6846								
TOOLS/TEST EQUIPMENT						99	Var.	Var.	97	Var.	Var.		
FLEXIBLE FUEL STORAGE		A				1855	337	5504					
FACTORY TRAINING FOR LAV-AD		A	392										
TOTAL			481			1954			97				

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1998

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 005		Weapon System Type:			P-1 Line Item Nomenclature: ITEMS LESS THAN \$2 MILLION (TRKD VEH) (P22820)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
HALON RECOVERY / RECHARGING SYSTEM FY 97	GETZ MANU. PEORIA IL	MIPR	US NAVY, LAKEHURST NJ	Sep-97	Nov-97	13	6846	Y	N/A	N/A	
TOOLS/TEST EQUIPMENT FY 98	VARIOUS	MIPR	TACOM, WARREN MI	Oct-97	Nov-97	VAR	VAR	N	N/A	N/A	
FY 99	VARIOUS	MIPR	TACOM, WARREN MI	Oct-98	Nov-98	VAR	VAR	N	N/A	N/A	
FLEXIBLE FUEL STORAGE FY 98	FMW RUBBER PROD., INC., WEST VIRGINIA	MIPR	TACOM, WARREN MI	Apr-98	Jun-98	337	5504	N	N/A	N/A	
FACTORY TRAINING FOR LAV-AD FY 97	LOCKHEED MARTIN ORDNANCE SYSTEMS INC., BURLINGTON, VT	MIPR	TACOM, WARREN, MI	Sep-97	N/A	N/A	N/A	N/A	N/A	N/A	

REMARKS:

LAV-AD Factory Training will take place from Feb 98 to Apr 98.

Exhibit P-20, Requirements Study		Appropriation/Budget Activity/Serial No: Procurement, Marine Corps /Weapons and Tracked Combat Vehicles / P2282005				Date: February-98			
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): Halon System		Admin Leadtime (after Oct 1): 8 Months				Prod Leadtime: 2 Months			
Line Descriptions		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary		13							
Unit Cost		7.0							
Total Cost		89.0							
Asset Dynamics									
Beginning Asset Position				13	13	13	13	13	
Deliveries from: FY 1997 Funding			13						
Deliveries from: FY 1998 Funding									
Deliveries from: FY 1999 Funding									
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position			13	13	13	13	13	13	
Inventory Objective or Current Authorized Allowance									
Inventory Objective 13		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI
Assets Rqd for Combat Loads:		96 thru FY XXXX		96 thru FY XXXX		96 thru FY XXXX		FY 1998	PAA: TAI
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 1999	Attrition Res
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment	BAI
Other:		FY XXXX		FY XXXX		FY XXXX			Inactive Inv
Total:									Storage
Remarks: .									

Exhibit P-20, Requirements Study		Appropriation/Budget Activity/Serial No: Procurement, Marine Corps /Weapons and Tracked Combat Vehicles / P2282005				Date: February-98		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): Supplemental Fuel Carrying System		Admin Leadtime (after Oct 1): Months				Prod Leadtime: Months		
Line Descriptions		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary			337					
Unit Cost			5.5					
Total Cost			1855.0					
Asset Dynamics								
Beginning Asset Position				337	337	337	337	337
Deliveries from: FY 1997 Funding								
Deliveries from: FY 1998 Funding			337					
Deliveries from: FY 1999 Funding								
Deliveries from Subsequent Years Funds								
Other Gains								
Combat Losses								
Training Losses								
Test Losses								
Other Losses								
Disposals/Retirements/Attritions								
End of Year Asset Position			337	337	337	337	337	337
Inventory Objective or Current Authorized Allowance								
Inventory Objective 603	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement	Aircraft: TOAI	
Assets Rqd for Combat Loads:	96 thru FY XXXX	96 thru FY XXXX	96 thru FY XXXX	96 thru FY XXXX		FY 1998	PAA: TAI	
WRM Rqmt:	FY XXXX	FY XXXX	FY XXXX	FY XXXX		FY 1999	Attrition Res	
Pipeline:	FY XXXX	FY XXXX	FY XXXX	FY XXXX		Augment	BAI	
Other:	FY XXXX	FY XXXX	FY XXXX	FY XXXX			Inactive Inv	
Total:							Storage	
Remarks: .								

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 006

P-1 Item Nomenclature:

MODIFICATION KITS (ARTY & OTHER) (P22724)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	4.3			1.7	1.5	1.8	1.7	1.4	1.2	1.2	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				1.1	1.5	1.8	1.7	1.4	1.2	1.2	Cont	Cont
Initial Spares												
Total Proc Cost	4.3			1.1	1.5	1.8	1.7	1.4	1.2	1.2	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

Missile Guidance System (MGS) for the Tube Launched Optically Tracked Wire guided Missile (TOW): The MGS upgrades the missile tracking software to provide enhanced targeting capability and increased reliability to the TOW Missile System.

Underwater Breathing Apparatus (UBA) Upgrade Kit: This upgrade standardizes the Marine Corps MK 25 Mod 2 UBA with the US Navy UBA configuration. The modification increases system safety and enhances performance by increasing diver underwater time.

Blank Firing Adapter (BFA) for the Assault Amphibian Vehicle (AAV) Up Gunned Weapons Station (UGWS): This is a blank firing adapter for the M2 .50 caliber machine gun located in the AAV UGWS. It will be compatible with the MILES 2000 training system and will allow the AAV to employ the UGWS in force on force training exercises.

- Developmental Testing: N/A
- Initial Operational Testing: 6/95
- Operational Testing: N/A
- PE: 26623M
- Technical Data Package: 2/98
- MS III: 9/97

Test Results: Production acceptance test scheduled for 2nd quarter FY 1998 will include test of minor ECP. This test is part of the initial full-rate production and will include first article testing prior to engaging full-rate production.

M240MG Conversion: This action will complete the conversion of the coaxial tank version M240 machine guns to the USMC ground version M240MG. The conversion also includes completing the acquisition of initial issue front sight adjustment tools for the USMC AO of M240MG's.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 006

P-1 Item Nomenclature:

MODIFICATION KITS (ARTY & OTHER) (P22724)

M240G Accessories: This action procures heat shields for spare barrel bags and ancillary parts for mounting M240G on AAV-C and AAV-B variants.

HYPAK: An electrically powered hydraulic system that will allow the operation of the wheels and speedshift to be raised/lowered in a more expedient manner on the M198 Howitzer.

Mk 19 Safety Upgrade: This is a safety upgrade that implements a permanent material change to the Mk 19 40mm machine gun which will prevent and/or minimize catastrophic malfunctions while firing high explosive dual purpose (HEDP) ammunition.

Developmental Testing: 12/97

Initial Operational Testing: N/A

Operational Testing: 6/98

PE: 26623M

Technical Data Package: 5/98

MS III: 8/98

Test Results: Will review US Army developmental testing and conduct limited OT in FY 1998.

M240MG Night Vision Upgrade: This upgrade enhances the current feed tray cover of the M240MG machine gun in order to attach existing and future night vision devices and other ancillary optical support equipment.

Developmental Testing: 12/97

Initial Operational Testing: N/A

Operational Testing: 4/98

PE: 26623M

Technical Data Package: 2/98

MS III: 8/98

Test Results: Will review US Army developmental testing and conduct limited OT in FY 1998.

Exhibit P-40C Budget Item Justification Sheet

Date

September 1997

Appropriation / Budget Activity/Serial No.

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 006

P-1 Item Nomenclature

MODIFICATION KITS (ARTY & OTHER) (P22724)

Program Elements for Code B Items

Code

Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total	
Underwater Breathing Apparatus											
Mod 1		0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	
Blank Firing Adapter											
Mod 2		0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	
M240G Conversion											
Mod 3		0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	
M240G Night Vision Upgrade											
Mod 4		0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	
M198 HYPAK											
Mod 5		0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	1.3	
Mk19 Safety Fix											
Mod 6		0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	
SASR Mod											
Mod 7		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
TOW Missile Guidance											
Mod 8 (No P3a Set)		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
Totals		1.1	1.5	1.8	1.7	1.4	1.2	1.2	Cont	Cont	

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 006			P-1 Line Item Nomenclature: MODIFICATION KITS (ARTY & OTHER) (P22724)			Weapon System Type:			Date: September 1997		
Weapon System Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
TOW Missile Guidance System (MGS)		A	129	1194	108								
Underwater Breathing Apparatus (UBA) Enhancement Kit		A	429	517	830								
UBA Tools			95										
Blank Firing Adapter		A	150	72	2075	337	162	2075					
M240MG Conversion		A				118	392	300					
M240G Accessories			309										
M240G Night Vision Upgrade		B							884	2455	360		
M198 HYPAK Fielding, Program Support		A				1045 47	190	5500	138 31	25	5520		
Mk 19 Safety Fix		B							790	1600	494		
TOTAL			1112			1547			1843				

Exhibit P-5a, Budget Procurement History and Planning

Date:
September 1997

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 006				Weapon System Type:		P-1 Line Item Nomenclature: MODIFICATION KITS (ARTY & OTHER) (P22724)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Underwater Breathing Apparatus (UBA) FY 97	CRC Gulf Coast	FFP-O	NSWC	Jan-97	Apr-97	517	830	Yes	N/A	NA
Blank Firing Adapter FY 97	FN Herstal	FFP	MCSC	Sep-97	May-98	72	2075	Yes	N/A	NA
FY 98				Dec-97	Jun-98	162	2075	Yes	N/A	NA
M240MG Conversion FY 98	MCLB Albany	FFP	MCSC	Nov-97	Feb-98	392	300	Yes	N/A	NA
M240G Night Vision Upgrade FY 99	TBD	FFP	MCSC	Nov-98	May-99	2455	360	No	N/A	NA
M198 HYPAK FY 98	Rock Island Arsenal	FFP	ACALA	Feb-98	May-98	190	5500	Yes	N/A	NA
FY 99				Feb-99	May-99	25	5520	Yes	N/A	NA
Mk 19 Safety Fix FY 99	TBD	FFP	ACALA	Jan-99	Apr-99	1600	494	No	N/A	NA
SASR MODIFICATION FY 96	Barrett, Mfg.	FFP	MCSC	Aug-96	Sep-96	106	802	Yes	N/A	N/A

REMARKS:

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: Underwater Breathing Apparatus Mod 1

MODELS OF SYSTEMS AFFECTED: MK 25 Mod 2

DESCRIPTION / JUSTIFICATION:

The upgrade standardizes the USMC Mk 25Mod 2 UBA with the US Navy UBA configuration. Procurement is underway, deliveries have begun.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs			131	131	131	124														
Outputs				131	131	131	124													

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		517
Outputs																		517

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 3 Months

Contract Dates: FY 1997 Jan-97 FY 1998 Enter Date FY 1999 Enter Date

Delivery Date: FY 1997 Apr-97 FY 1998 Enter Date FY 1999 Enter Date

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): Underwater Breathing Apparatus Mod 1

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity			517																	517	
Inst Kits, Nonrecurring				0.429																	0.429
Equipment, Nonrecurring				0.095																	0.095
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos				0.524																	0.524

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: Blank Firing Adapter Mod 2

MODELS OF SYSTEMS AFFECTED: M2 Caliber Machine Gun

DESCRIPTION / JUSTIFICATION:

This is a blank barrel that will allow the AAV to participate in force-on-force training exercises. A J&A has been signed to pursue a sole source contract with FN Herstal.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals							43	81	39	39	32									
Inputs							43	81	39	39	32									
Outputs							43	81	39	39	32									

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		234
Outputs																		234

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 Months

PRODUCTION LEADTIME: 6 Months

Contract Dates: FY 1997 Sep-97 FY 1998 Dec-97 FY 1999 Enter Date

Delivery Date: FY 1997 May-98 FY 1998 Jun-98 FY 1999 Enter Date

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): Blank Firing Adapter Mod 2

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity			72		162															234	00.487
Inst Kits, Nonrecurring				00.150		00.337															
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos				0.150		0.337															0.487

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: M240MG Conversion Mod 3

MODELS OF SYSTEMS AFFECTED: M240G Machine Gun

DESCRIPTION / JUSTIFICATION:

This modification converts the remainig M240s to M240Gs. Parts for the mod will be delivered to MCLB Albany by first quarter 98.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals						130	130	132												
Inputs																				
Outputs								130	130	132										

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				
Outputs																				392

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 3 Months

Contract Dates: FY 1997 Enter Date FY 1998 Nov-97 FY 1999

Delivery Date: FY 1997 Enter Date FY 1998 Feb-98 FY 1999

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): M240G Conversion Mod 3

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity					392															392	
Inst Kits, Nonrecurring	Var	0.024				0.118															0.142
Equipment, Nonrecurring			Var	0.309																	0.309
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos		0.024		0.309		0.118															0.451

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: M240G Night Vision Upgrade Mod 4

MODELS OF SYSTEMS AFFECTED: M240G Machine Gun

DESCRIPTION / JUSTIFICATION:

Modifies the M240G in order to attach night vision equipment and optical support equipment to the feed tray cover.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

MS III 8/98.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Inputs											613	613	613	616									
Outputs												613	613	613	616								

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						2455
Outputs																						2455

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 Months

PRODUCTION LEADTIME: 6 Months

Contract Dates: FY 1997

FY 1998 Nov-97

FY 1999 Nov-98

Delivery Date: FY 1997

FY 1998 May-98

FY 1999 May-99

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): M240G Night Vision Upgrade Mod 4

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity							2455													2455	
Inst Kits, Nonrecurring								0.884													0.884
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos								0.884													0.884

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: M198 HYPAK Mod 5

MODELS OF SYSTEMS AFFECTED: M198 Howitzer.

DESCRIPTION / JUSTIFICATION:

An electronically powered hydraulic system that will allow the operation of the wheels and spedshift to be raised/lowered in a more expedient and efficient manner on the M198 Howitzer. Developed by the US Army and in service.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs							29	46	47	47	46									
Outputs								29	46	47	47	46								

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				215
Outputs																				215

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 4 Months

PRODUCTION LEADTIME: 3 Months

Contract Dates: FY 1997

FY 1998 Feb-98

FY 1999 Feb-99

Delivery Date: FY 1997

FY 1998 May-98

FY 1999 May-99

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): M198 HYPAK Mod 5

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity					190		25												215		
Inst Kits, Nonrecurring						1.092		0.169													1.261
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos						1.092		0.169													1.261

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: Mk19 Safety Fix Mod 6

MODELS OF SYSTEMS AFFECTED: Mk 19 GMG

DESCRIPTION / JUSTIFICATION:

This is a safety upgrade that implements a permanent material change to the Mk 19 40mm machine gun which will prevent and/or minimize catastrophic malfunctions while firing high explosive dual purpose (HEDP) ammunition.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

ECP in development to achieve MSIII 8/98.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs											399	399	399	403						
Outputs												399	399	399	403					

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					1600
Outputs																					1600

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months
 Contract Dates: FY 1997 FY 1998 FY 1999 Jan-99
 Delivery Date: FY 1997 FY 1998 FY 1999 Apr-99

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): Mk19 Safety Fix Mod 6

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity							1600													1600	
Inst Kits, Nonrecurring								0.790													0.790
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos								0.790													0.790

INDIVIDUAL MODIFICATION

Date September 1997

MODIFICATION TITLE: SASR Mod Mod 7

MODELS OF SYSTEMS AFFECTED: M82 Sniper Rifle

DESCRIPTION / JUSTIFICATION:

Provided a safety modification to the bolt and a performance enhancement to the chamber of the USMC .50 cal sniper rifle (SASR).
Procurement completed.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

	Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	20	60	26																			
Outputs		20	60	26																		

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						106
Outputs																						106

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 10 Months

PRODUCTION LEADTIME: 1 Months

Contract Dates: FY 1997

FY 1998

FY 1999

Delivery Date: FY 1997

FY 1998

FY 1999

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): SASR Mod Mod 7

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	106																			106	
Inst Kits, Nonrecurring		0.109																			0.109
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos		0.109																			0.109

INDIVIDUAL MODIFICATION

Date **September 1997**

MODIFICATION TITLE: TOW Missile Guidance Mod 8

MODELS OF SYSTEMS AFFECTED: TOW Missile

DESCRIPTION / JUSTIFICATION:

This Modification updates software in the TOW Missile Guidance Set AN/TSQ-136. The revised software improves the performance of the TOW missile.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

	Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs	Totals		240	240	240	237	237															
Outputs			240	240	240	237	237															

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4							
Inputs																						1194	
Outputs																							1194

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 Months

PRODUCTION LEADTIME: 4 Months

Contract Dates: FY 1997 Nov 96 FY 1998 Enter Date FY 1999 Enter Date

Delivery Date: FY 1997 Feb 97 FY 1998 Enter Date FY 1999 Enter Date

INDIVIDUAL MODIFICATION

Date

September 1997

MODIFICATION TITLE (Cont): TOW Missile Guidance Mod 8

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity			1194																	1194	
Inst Kits, Nonrecurring				0.129																	0.129
Equipment, Nonrecurring																					
ECO																					
Other																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Installment Cost																					
Total Procurement Cos				0.129																	0.129

Exhibit P-40, Budget Item Justification Sheet

Date:

September 1997

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 007

P-1 Item Nomenclature:

ITEMS LESS THAN \$2 MILLION (OTHER) (P22140)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	2.3			0.1	0.8	0.1	0.1	0.1	0.1	0.1	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.3			0.1	0.8	0.1	0.1	0.1	0.1	0.1	Cont.	Cont.
Initial Spares				0.3	2.5							2.8
Total Proc Cost	2.3			0.4	3.3	0.1	0.1	0.1	0.1	0.1	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												

This is a roll up line which contains items that are under \$2M.

Rifle Team Equipment (RTE):

These are principle items procured to replace weapons that have been worn out in service and that are no longer repairable. These items are required to support the Marine Corps shooting teams authorized to compete with other services in competitive shooting matches.

Muzzle Velocity system (MVS):

Funds are in support of the MVS fielding effort.

Close Quarters Battle Weapon (CQBW):

This funding profile includes procurement of the M4 carbine and Rail Interface system which make up the Close Quarters Battle Weapon.

LAV-AD:

Funding is provided for engineering change orders and production support for the LAV-AD.

Exhibit P-40, Budget Item Justification Sheet

Date:

September 1997

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 007

P-1 Item Nomenclature:

ITEMS LESS THAN \$2 MILLION (OTHER) (P22140)

M1A1 Tank:

Funding is provided to procure the Halon Recovery/Discharging System for the M1A1 Main Battle Tank. The M1A1 Main Battle Tank will have the required equipment to recover unused Halon 1301 from Fire Suppression Systems and recharge the Halon and Nitrogen to ensure fire suppression and combat readiness.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 007			P-1 Line Item Nomenclature: ITEMS LESS THAN \$2 MILLION (OTHER) (P22140)			Weapon System Type:			Date: September 1997		
Weapon System Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
RifleTeam Equipment: MISC. New Weapons and Equipment		A	122			96			107				
M4 Colt Firearms		NA				352	600	587					
Rail Interface System, Knight Armaments		NA				362	600	603					
TOTAL			122			810			107				

Exhibit P-20, Requirements Study			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 007				Date: September-97		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): M4 Carbine			Admin Leadtime (after Oct 1): 3 Months				Prod Leadtime: 6 Months		
Line Descriptions			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				600					
Unit Cost				1.0					
Total Cost				352.0					
Asset Dynamics									
Beginning Asset Position					275	600	600	600	600
Deliveries from:	FY 1997	Funding							
Deliveries from:	FY 1998	Funding		275	325				
Deliveries from:	FY 1999	Funding							
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position				275	600	600	600	600	600
Inventory Objective or Current Authorized Allowance									
Inventory Objective	916	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for Replacement	Aircraft: TOAI			
Assets Rqd for Combat Loads:		96 thru FY XXXX	96 thru FY XXXX	96 thru FY XXXX	FY 1998	PAA: TAI			
WRM Rqmt:		FY XXXX	FY XXXX	FY XXXX	FY 1999	Attrition Res			
Pipeline:		FY XXXX	FY XXXX	FY XXXX	Augment	BAI			
Other:		FY XXXX	FY XXXX	FY XXXX		Inactive Inv			
Total:						Storage			
Remarks:									

Exhibit P-20, Requirements Study			Appropriation/Budget Activity/Serial No: Procurement, Marine Corps /Weapons and Tracked Combat Vehicles / P2214007				Date: September-97		
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): Rail Interface System			Admin Leadtime (after Oct 1): 6 Months				Prod Leadtime: 6 Months		
Line Descriptions			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				600					
Unit Cost				1.0					
Total Cost				362.0					
Asset Dynamics									
Beginning Asset Position					275	600	600	600	600
Deliveries from:	FY 1997	Funding							
Deliveries from:	FY 1998	Funding		275	325				
Deliveries from:	FY 1999	Funding							
Deliveries from Subsequent Years Funds									
Other Gains									
Combat Losses									
Training Losses									
Test Losses									
Other Losses									
Disposals/Retirements/Attritions									
End of Year Asset Position				275	600	600	600	600	600
Inventory Objective or Current Authorized Allowance									
Inventory Objective	916	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for Replacement	Aircraft: TOAI			
Assets Rqd for Combat Loads:		96 thru FY XXXX	96 thru FY XXXX	96 thru FY XXXX	FY 1998	PAA: TAI			
WRM Rqmt:		FY XXXX	FY XXXX	FY XXXX	FY 1999	Attrition Res			
Pipeline:		FY XXXX	FY XXXX	FY XXXX	Augment	BAI			
Other:		FY XXXX	FY XXXX	FY XXXX		Inactive Inv			
Total:						Storage			
Remarks:									

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1998

Appropriation / Budget Activity/Serial No:

Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 009

P-1 Item Nomenclature:

Howitzer, Lightweight 155MM (LW155) (P22101)

Program Elements for Code B Items:

0603635M

Code:

B

Other Related Program Elements:

PE 0604854A (Artillery Systems-Engineering Development)

	Prior Years			FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty							70	120	120	120	96	526
Gross Cost						10.0	86.3	116.8	121.6	117.7	100.0	552.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						10.0	86.3	116.8	121.6	117.7	100.0	552.4
Initial Spares								3.4	5.9	5.0	2.6	16.9
Total Proc Cost						10.0	86.3	120.2	127.5	122.7	102.6	569.3
Flyaway U/C												1.1
Wpn Sys Proc U/C							1.2	1.0	1.0	1.0	1.0	1.1

The Howitzer, Lightweight 155MM (LW155) replaces the M198 howitzer and will be the sole USMC artillery weapon for all forces and missions. A 45% reduction in weight compared to the current system allows for greater strategic and tactical mobility while maintaining or improving range, weapon stability, accuracy, and durability. Battlefield mobility and rates of fire are also significantly improved creating a weapon that is more survivable and lethal. Long lead funding in FY99 provides initial production facilitization (IPF) of the GFE armament production line and procurement of titanium for the weapon carriage. Procurement of titanium plates, cylinders and castings supports the manufacturing of top and bottom carriage assemblies and cradle assemblies. This allows production to start immediately upon approval of the MS III decision. Long lead funding was approved in the Acquisition Decision Memorandum (ADM) by the ASN,RDA on 5 February 1996. The LW155 is currently a Code B item.

A MS I/II MCPDM was approved on 5 February 1996. After a ten month "shoot-off" between competitors a three year EMD contract was signed with Cadillac Gage Textron Inc. on 17 March 1997.

RDT&E Program Element: 0603635M; Project Number: C2112
 Engineering and Manufacturing Developmental testing: Begin: August 1997 End: August 1999
 Multi-Service Operational Test and Evaluation : Begin: April 1999 End: July 1999
 Performance Specification is part of the existing EMD contract which has two years of production options.
 Technical Data Package will be delivered after the first two years of production.
 Milestone III scheduled for January 2000.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 009			P-1 Line Item Nomenclature: Howitzer, Lightweight 155MM (LW155) (P22101)			Weapon System Type:			Date: February 1998		
Weapon Svstem Cost Elements		ID	FY 97			FY 98			FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
Titanium plate, cylinders and castings											7502		
Initial production facilitization											2500		
TOTAL											10002		
Long lead funding will purchase titanium for the weapon carriage requiring a 12 month lead time.													
Long lead funding provides initial production facilitization of the GFE armament production line.													

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1998

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2) / 009		Weapon System Type:			P-1 Line Item Nomenclature: LTWT 155MM TOWED HOW (LW155) (P22101)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Titanium plate, cylinders and castings	Cadalic Gage Textron Inc. LA	C-FPI-FT	Picatinny, NJ	Jan-99	Jan-00	Various	Various	Yes	N/A	Apr-96
Initial Production Facilitization of GFE armament.	Watervilet Arsenal, NY	MIPR	Picatinny, NJ	Jan-99	Jan-00	Various	Various	Yes	N/A	NA

REMARKS: Long lead funding covers pre-production titanium plates, cylinders and castings (\$7.6M) necessary for the production line to be set-up and operating immediately after MSIII decision (Jan 00). Authorization of long lead funding is subject to an in process review prior to the release of funds (est Jan 99).