DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2011 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES FEBRUARY 2010

PROCUREMENT, MARINE CORPS



Department of Defense Appropriations Act, 2011

Procurement, Marine Corps

For expenses necessary for the procurement, manufacture, and modification of missiles, armament, military equipment, spare parts, and accessories therefore; plant equipment, appliances, and machines tools, and installation thereof in public and private plants; reserve plant and Government and contractor-owned equipment layaway; vehicles for the Marine Corps, including the purchase of passenger motor vehicles for replacement only; and expansion of public and private plants, including land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title, \$1,344,044,000 to remain available for obligation until September 30, 2013.



Department of the Navy FY 2011 President's Budget

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request

Summary

(Dollars in Thousands)

Appropriation	FY 2009 (Base & OCO)	FY 2010 Base & OCO Enacted	FY 2010 Supplemental Request	FY 2010 Total
Procurement, Marine Corps	4,373,537	2,410,009	18,927	2,428,936
Total Department of the Navy	4,373,537	2,410,009	18,927	2,428,936

Exhibit P-1G: FY 2011 President's Budget (Published), as of January 25, 2010 at 16:17:21

25 Jan 2010

Department of the Navy FY 2011 President's Budget

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request Summary

(Dollars in Thousands)

FY 2011 FY 2011 FY 2011 Appropriation Base OCO Total Request _____ -----1,344,044 1,778,243 3,122,287 Procurement, Marine Corps Total Department of the Navy 1,344,044 1,778,243 3,122,287

Exhibit P-1G: FY 2011 President's Budget (Published), as of January 25, 2010 at 16:17:21

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Department of the Navy FY 2011 President's Budget

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request

Summary

25 Jan 2010 (Dollars in Thousands)

Appropriation: Procurement, Marine Corps

Budget Activity	FY 2009 (Base & OCO)	FY 2010 Base & OCO Enacted	FY 2010 Supplemental Request	FY 2010 Total
02. Weapons and combat vehicles	834,704	338,183		338,183
03. Guided missiles and equipment	111,936	92,970		92,970
04. Communications & electronics equipment	871,103	669,371	14,300	683,671
05. Support Vehicles	520,912	531,953		531,953
06. Engineer and Other Equipment	2,018,227	736,113	4,627	740,740
07. Spares and Repair Parts	16,655	41,419		41,419
Total Procurement, Marine Corps	4,373,537	2,410,009	18,927	2,428,936

Department of the Navy FY 2011 President's Budget

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request

Summary (Dollars in Thousands)

Appropriation: Procurement, Marine Corps

Budget Activity	FY 2011 Base	FY 2011 OCO	FY 2011 Total Request
O2 Warran and sambab mahinlar	171 457	420, 266	
02. Weapons and combat vehicles 03. Guided missiles and equipment	171,457	439,366	610,823 50,858
04. Communications & electronics equipment	50,858 654,553	598,893	1,253,446
05. Support Vehicles	202,750	224,783	427,533
06. Engineer and Other Equipment	250,902	515,201	766,103
07. Spares and Repair Parts	13,524	313,201	13,524
Total Procurement, Marine Corps	1,344,044	1,778,243	3,122,287
rotar rrotarement, Marrine Corps	1,311,011	1,,,0,213	3,122,207

Exhibit P-1G: FY 2011 President's Budget (Published), as of January 25, 2010 at 16:17:21

25 Jan 2010

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps

Date: 25 Jan 2010

Line No Item Nomenclature	Ident Code			FY 20 Base Enac Quantity	& OCO	FY 201 Supplem Reque Quantity	ental	FY 2 Tot Quantity		S e c
Budget Activity 02: Weapons and combat vehicles										
Tracked Combat Vehicles										
1 AAV7A1 PIP	А		5,462		6,135				6,135	U
2 LAV PIP	А		231,031		74,219				74,219	U
3 Mlal Firepower Enhancements	A		14,663							U
Artillery And Other Weapons										
4 Expeditionary Fire Support System	А	20	21,497	20	19,531			20	19,531	U
5 155mm Lightweight Towed Howitzer	В	62	188,654	18	61,397			18	61,397	U
6 High Mobility Artillery Rocket System	А		135,107		71,256				71,256	U
7 Weapons And Combat Vehicles Under \$5 Million	А		31,482		19,459				19,459	U
Weapons										
8 Modular Weapon System	А		1,892							U
Other Support										
9 Modification Kits	А		177,934		54,866				54,866	U
10 Weapons Enhancement Program	А		26,982		31,320				31,320	U
Total Weapons and combat vehicles			834,704		338,183				338,183	
Budget Activity 03: Guided missiles and equipment										
Guided Missiles										
11 Ground Based Air Defense	A		8,780		11,352				11,352	U
12 Javelin	А		35,548							U

Department of the Navy FY 2011 President's Budget Exhibit P-1 FY 2011 Base and Overseas Contingency Operations

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps Date: 25 Jan 2010

Line	Ident	FY 20 Base		FY 2011 OCO			2011 Request	S e
No Item Nomenclature	Code	Quantity	Cost	Quantity	Cost	Quantity		C -
Budget Activity 02: Weapons and combat vehicles								
Tracked Combat Vehicles								
1 AAV7A1 PIP	А		7,749				7,749	U
2 LAV PIP	А		41,277		152,333		193,610	U
3 Mla1 Firepower Enhancements	А							U
Artillery And Other Weapons								
4 Expeditionary Fire Support System	А	10	9,723			10	9,723	U
5 155mm Lightweight Towed Howitzer	В	2	10,356	20	103,600	22	113,956	U
6 High Mobility Artillery Rocket System	А		22,230		145,533		167,763	U
7 Weapons And Combat Vehicles Under \$5 Million	А		26,091		7,329		33,420	U
Weapons								
8 Modular Weapon System	А							U
Other Support								
9 Modification Kits	А		40,916		12,000		52,916	U
10 Weapons Enhancement Program	А		13,115		18,571		31,686	U
Total Weapons and combat vehicles			L71,457		439,366		610,823	
Budget Activity 03: Guided missiles and equipment								
Guided Missiles								
11 Ground Based Air Defense	А		5,175				5,175	U
12 Javelin	А							U

Department of the Navy FY 2011 President's Budget xhibit P-1 FY 2011 Base and Overseas Contingency Operation

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps Date: 25 Jan 2010

Line No Item Nomenclature	Ident Code 	FY 2009 (Base & OCO) Quantity Cost	FY 2010 Base & OCO Enacted Quantity Cost	FY 2010 Supplemental Request Quantity Cost	FY 2010 Total Quantity Cost	S e c
13 Follow On To SMAW	А					U
14 Anti-Armor Weapons System-Heavy (AAWS-H)			71,005		71,005	U
Other Support						
15 Modification Kits	A	67,608	10,613		10,613	U
Total Guided missiles and equipment		111,936	92,970		92,970	
Budget Activity 04: Communications & electronics	s equipment					
Command And Control Systems						
16 Unit Operations Center	А	92,468	19,771		19,771	U
Repair And Test Equipment						
17 Repair And Test Equipment	А	89,730	43,928		43,928	U
Other Support (Tel)						
18 Combat Support System	A	17,594	11,795		11,795	U
19 Modification Kits	A					U
Command And Control System (Non-Tel)						
20 Items Under \$5 Million (Comm & Elec)	A	10,315	7,673		7,673	U
21 Air Operations C2 Systems	A	27,869	48,040		48,040	U
Radar + Equipment (Non-Tel)						
22 Radar Systems	A	42,368	10,822		10,822	U
<pre>Intell/Comm Equipment (Non-Tel)</pre>						
23 Fire Support System	A	5,151	3,093		3,093	U
24 Intelligence Support Equipment	В	148,477	70,714	14,300	85,014	U

Department of the Navy FY 2011 President's Budget whibit P-1 FY 2011 Base and Overseas Contingency Operation

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps

Line No Item Nomenclature	Ident Code	FY 2011 Base		FY 2011 OCO		Total Re	FY 2011 Total Request Quantity Cost	
NO Item Nomenciature		Quantity 	Cost	Quantity 	Cost 	Qualitity		-
13 Follow On To SMAW	A	2	1,570				21,570	U
14 Anti-Armor Weapons System-Heavy (AAWS-H)		2	0,315				20,315	U
Other Support								
15 Modification Kits	A		3,798				3,798	U
Total Guided missiles and equipment			0,858				50,858	
Budget Activity 04: Communications & electronics	equipment							
Command And Control Systems								
16 Unit Operations Center	A	1	0,776	1:	12,424	<u>-</u>	123,200	U
Repair And Test Equipment								
17 Repair And Test Equipment	А	2	5,636	:	15,962		41,598	U
Other Support (Tel)								
18 Combat Support System	A	3	2,877				32,877	U
19 Modification Kits	A			:	18,545		18,545	U
Command And Control System (Non-Tel)								
20 Items Under \$5 Million (Comm & Elec)	A		3,405	:	11,549		14,954	U
21 Air Operations C2 Systems	A	6	7,568		41,031	=	108,599	U
Radar + Equipment (Non-Tel)								
22 Radar Systems	A		860		5,493		6,353	U
Intell/Comm Equipment (Non-Tel)								
23 Fire Support System	A		3,906		4,710		8,616	U
24 Intelligence Support Equipment	В	9	2,377	;	32,897	=	175,274	U

Exhibit P-1G: FY 2011 President's Budget (Published), as of January 25, 2010 at 16:17:21

Date: 25 Jan 2010

Department of the Navy FY 2011 President's Budget Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps

Date: 25 Jan 2010

Line No Item Nomenclature	Ident Code				e & OCO acted Cost	FY 20: Suppler Reque Quantity	mental	FY 2 Tot Quantity		S e c
25 RQ-11 UAV				495	41,492			495	41,492	U
26 DCGS-MC	А									U
Other Comm/Elec Equipment (Non-Tel)										
27 Night Vision Equipment	А		53,078		10,328				10,328	U
Other Support (Non-Tel)										
28 Common Computer Resources	А		88,364		138,012				138,012	U
29 Command Post Systems	А		144,765		72,707				72,707	U
30 Radio Systems	А		62,832		81,436				81,436	U
31 Comm Switching & Control Systems	A		64,412		94,013				94,013	U
32 Comm & Elec Infrastructure Support	А		23,680		15,547				15,547	U
Total Communications & electronics equipment			871,103		669,371		14,300		683,671	
Budget Activity 05: Support Vehicles										
Administrative Vehicles										
33 Commercial Passenger Vehicles	А		1,197		1,261				1,261	U
34 Commercial Cargo Vehicles	А		17,600		13,568				13,568	U
Tactical Vehicles										
35 5/4T Truck HMMWV (MYP)	A	591	130,979	213	37,602			213	37,602	U
36 Motor Transport Modifications	А		38,355		2,991				2,991	U
37 Medium Tactical Vehicle Replacement	А		30,832		141,802				141,802	U
38 Logistics Vehicle System Rep	А	518	255,144	486	275,941			486	275,941	U
39 Family Of Tactical Trailers	А		32,983		34,792				34,792	U

Department of the Navy FY 2011 President's Budget Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps

Line	Ident	FY 2011 Base		FY 2011 OCO					FY 2011 :	
No Item Nomenclature	Code	Quantity	Cost	Quantity	Cost	Quantity	Cost	C -		
25 RQ-11 UAV		16	32,490			16	32,490	U		
26 DCGS-MC	А		4,582		21,789		26,371	U		
Other Comm/Elec Equipment (Non-Tel)										
27 Night Vision Equipment	А							U		
Other Support (Non-Tel)										
28 Common Computer Resources	А	:	258,947		29,412		288,359	U		
29 Command Post Systems	А		33,021		36,256		69,277	U		
30 Radio Systems	А		40,551	=	155,545		196,096	U		
31 Comm Switching & Control Systems	А		32,279		63,280		95,559	U		
32 Comm & Elec Infrastructure Support	А		15,278				15,278	U		
Total Communications & electronics equipment			654,553		598,893		,253,446			
Budget Activity 05: Support Vehicles										
Administrative Vehicles										
33 Commercial Passenger Vehicles	А		1,157				1,157	U		
34 Commercial Cargo Vehicles	А		12,696				12,696	U		
Tactical Vehicles										
35 5/4T Truck HMMWV (MYP)	А	17	4,849	77	12,994	94	17,843	U		
36 Motor Transport Modifications	А		5,253				5,253	U		
37 Medium Tactical Vehicle Replacement	А		11,721		80,559		92,280	U		
38 Logistics Vehicle System Rep	А	550	133,827	230	109,100	780	242,927	U		
39 Family Of Tactical Trailers	А		19,156		22,130		41,286	U		

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Date: 25 Jan 2010

Department of the Navy FY 2011 President's Budget Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps

Date: 25 Jan 2010

Line No Item Nomenclature	Ident Code	FY 2009 (Base & OCO) Quantity Cost	FY 2010 Base & OCO Enacted Quantity Cost	FY 2010 Supplemental Request Quantity Cost	FY 2010 Total Quantity Cost	S e c
40 Trailers	А	8,399	18,066		18,066	U
Other Support						
41 Items Less Than \$5 Million	A	5,423	5,930		5,930	U
Total Support Vehicles		520,912	531,953		531,953	
Budget Activity 06: Engineer and Other Equipment						
Engineer And Other Equipment						
42 Environmental Control Equip Assort	А	10,535	10,225		10,225	U
43 Bulk Liquid Equipment	A	13,744	20,635		20,635	U
44 Tactical Fuel Systems	A	30,230	68,372		68,372	U
45 Power Equipment Assorted	A	52,091	54,800		54,800	U
46 Amphibious Support Equipment	A	24,745	28,787		28,787	U
47 EOD Systems	A	1,342,196	140,744		140,744	U
Materials Handling Equipment						
48 Physical Security Equipment	A	86,229	15,848		15,848	U
49 Garrison Mobile Engineer Equipment (GMEE)	A	9,429	11,789		11,789	U
50 Material Handling Equip	A	88,813	98,177		98,177	U
51 First Destination Transportation	A	5,789	5,285		5,285	U
General Property						
52 Field Medical Equipment	A	31,137	6,790		6,790	U
53 Training Devices	В	113,644	137,112	4,627	141,739	U
54 Container Family	A	4,385	3,758		3,758	U

Department of the Navy FY 2011 President's Budget Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps Date: 25 Jan 2010

Line	Ident	FY 2011 Base			S e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	C -
40 Trailers	А	8,075		8,075	U
Other Support					
41 Items Less Than \$5 Million	А	6,016		6,016	U
Total Support Vehicles		202,750	224,783	427,533	
Budget Activity 06: Engineer and Other Equipment					
Engineer And Other Equipment					
42 Environmental Control Equip Assort	А	5,110	17,799	22,909	U
43 Bulk Liquid Equipment	А	10,743	1,628	12,371	U
44 Tactical Fuel Systems	А	29,330	83,698	113,028	U
45 Power Equipment Assorted	А	19,419	41,536	60,955	U
46 Amphibious Support Equipment	А	11,718		11,718	U
47 EOD Systems	А	64,093	213,985	278,078	U
Materials Handling Equipment					
48 Physical Security Equipment	А	16,419	5,200	21,619	U
49 Garrison Mobile Engineer Equipment (GMEE)	А	10,976		10,976	U
50 Material Handling Equip	А	24,376	58,264	82,640	U
51 First Destination Transportation	А	2,748		2,748	U
General Property					
52 Field Medical Equipment	А	6,722		6,722	U
53 Training Devices	В	5,668	55,864	61,532	U
54 Container Family	А	897	8,826	9,723	U

Department of the Navy FY 2011 President's Budget whibit D-1 FY 2011 Page and Overgeas Contingency Operation

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps Date: 25 Jan 2010

Line	Ident	FY 2009 (Base & OCO)	FY 2010 Base & OCO Enacted	FY 2010 Supplemental Request	FY 2010 Total	S e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	C -
55 Family Of Construction Equipment	А	162,164	73,436		73,436	U
56 Family Of Internally Transportable Veh (ITV)	А	44 21,902	40 10,328		40 10,328	U
57 Bridge Boats	A					U
58 Rapid Deployable Kitchen	A	4,625	2,207		2,207	U
Other Support						
59 Items Less Than \$5 Million	A	16,569	47,820		47,820	U
Total Engineer and Other Equipment		2,018,227	736,113	4,627	740,740	
Budget Activity 07: Spares and Repair Parts						
Spares And Repair Parts						
60 Spares And Repair Parts	A	16,655	41,419		41,419	U
Total Spares and Repair Parts		16,655	41,419		41,419	
Total Procurement, Marine Corps		4,373,537	2,410,009	18,927	2,428,936	

Department of the Navy FY 2011 President's Budget (xhibit P-1 FY 2011 Base and Overseas Contingency Operations (

Exhibit P-1 FY 2011 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

Appropriation: 1109N Procurement, Marine Corps

Line	Ident	FY 2011 Base	FY 2011 OCO	FY 2011 Total Request	S e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	
55 Family Of Construction Equipment	A	18,261		18,261	U
56 Family Of Internally Transportable Veh (ITV)	A		73 28,401	73 28,401	U
57 Bridge Boats	A	12,567		12,567	U
58 Rapid Deployable Kitchen	А	4,283		4,283	U
Other Support					
59 Items Less Than \$5 Million	А	7,572		7,572	U
Total Engineer and Other Equipment		250,902	515,201	766,103	
Budget Activity 07: Spares and Repair Parts					
Spares And Repair Parts					
60 Spares And Repair Parts	A	13,524		13,524	U
Total Spares and Repair Parts		13,524		13,524	
Total Procurement, Marine Corps		1,344,044	1,778,243	3,122,287	

Exhibit P-1G: FY 2011 President's Budget (Published), as of January 25, 2010 at 16:17:21

Date: 25 Jan 2010

Exhibit I	P-40, Budget	Item Just	tification	Sheet		Date:		F	ebruary 201	0		
Appropriation / Budget Activity Procurement, Marine Corps (* Vehicles / 2021		ns and Com			omenclature:			AAV7A1 PIP				
Program Element:			Code	Other Relate	ed Program F	Elements:						
0206211M Divisions (Marine)			Α									
	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total
Proc Qty												
Gross Cost	833.0	5.4	10.5	10.9	Cont.	Cont.						
Less PY Adv Proc						,						
Plus CY Adv Proc	Proc Proc Proc Proc Proc Proc Proc Proc											
Net Proc (P-1)	833.0	5.4	6.1	7.7	0.0	7.7	9.9	10.1	10.5	10.9	Cont.	Cont.
Initial Spares	10.1	0.0	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	s 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.											Cont.
Flyaway U/C	833.0 5.4 6.1 7.7 0.0 7.7 9.9 10.1 10.5 10.9 Co 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0											
Wpn Sys Proc U/C												
Reserves	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	1	
Prior Years FY2019 FY2010 FY2011 FY2011 FY2012 FY2013 FY2014 FY2015 To Complete												

Exhibit P-5 Cost Analysis	Procu	opriation/ Budge rement, Marine oons and Comb	Corps (1109)	0 / 02 2021		n Nomenclature 7A1 PIP		System Type:	Date: February		
	ID	Prior Yrs		FY 09			FY 10			FY11	
Weapon System Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
AAV MOD LINE Tech/Engineering Support		61035 5702	5462	VAR	VAR	6135	VAR	VAR	7749	VAR	VAR
Thermal Imaging Module		56298									
AAVC7 Upgrade		77651									
Subtotal Baseline		200686	5462			6135			7749		
TOTAL		200686	5462			6135			7749		
ACTIVE			5408			6073			7671		
RESERVES			54			62			78		
<u>Reserves</u> AAV MOD LINE			54			62			78		
Reserves Subtotal			54			62			78		

	Exhibit P-4	40, Budget	Item Jus	tification	Sheet			Date: Februa	ıry 2010			
Appropriation / Budget	Activity/Serial No:					P-1 Item No	menclature:					
Procurement, Marine C	orps (1109) / 02 W	eapons and (Combat Vehi	icles / 2038				LIGHT A	ARMORED	VEHICLE (L.	AV) PIP	
Program Elements:				Code:	Other Rela	ted Program	Elements:					
020	6211M Divisions (M	farine)		Α								
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											•	,
Gross Cost	1123.2	231.0	74.2	41.3	152.3	193.6	16.4	6.0	145.2	142.6	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												4.0
Net Proc (P-1)	1123.2	231.0	74.2	41.3	152.3	193.6	16.4	6.0	145.2	142.6	Cont.	Cont.
Initial Spares	11.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	1135.0	231.1	74.2	0.0	152.3	193.6	16.4	6.0	145.2	142.6	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	11.5	6.2	7.4	127.5	134.9	3.0	1.1	1.1	1.1	Cont.	Cont.

Base Appropriation Request: : No major changes since PB10 that have caused any significant impacts.

LAV MODIFICATION: Projects funded under the LAV Modification Program include numerous low-dollar, yet extremely important minor vehicle and weapon modifications, focusing on safety and obsolescence issues, support equipment and tools, and other such projects that increase LAV reliability and readiness while simultaneously reducing operations and support costs. This funding is critical to offsetting support issues generated as a result of the OCO and the advancing age of the family of Light Armored Vehicles, respective of the extended service life through 2025, while maintaining acceptable levels of fleet readiness. PM-LAV Sustainment/Readiness Team uses multi-disciplined integrated project teams consisting of engineering, logistical, contracting and financial personnel to manage Modification projects.

LAV COMMAND & CONTROL UPGRADE (LAV-C2): The LAV-C2 Upgrade Program (FY 2009 - FY2012) is designed to meet and maintain the command and control requirements of the Operational Requirements Document (ORD). LAV-C2 upgrade provides a hardware and software module for the LAV-C2 to support complex radio configurations. The upgrade seeks to integrate in the vehicle, those non-developmental hardware and software components that will ensure that the vehicles - and the appropriate LAR unit command element - have the capability to send and receive required voice and data communications to higher, adjacent and subordinate units. The module will provide isolation of critical communications functio in a self-contained module to support a mix of legacy radio's. The modification is needed to keep the LAV-C2 a viable weapon system through the service life of the LAV Family of Vehicles.

LAV LETHALITY: The LAV Lethality Program (FY 2007-FY2010) will upgrade the LAV 25's M242 gun and associated hardware and software necessary to enable the firing of M919 25mm Armor Piercing, Fin Stabilized, Discarding Sabot (Depleted Uranium) with tracer ammunition. The LAV Lethality upgrade will provide superior lethality resulting in increased survivability. The LAV Lethality program will invest in technologies currently on the U.S. Army's Bradley Fighting Vehicle.

LAV (LAV-25): The Light Armored Vehicle (LAV-25) program is for the procurement of LAV's to replace projected reset as a result of Operation Iraqi Freedom/Operation Enduring Freedom. Replacing these vehicles will ensure the USMC Light Armored Reconnaissance (LAR) battalions have adequate numbers of LAVs for continued combat operations.

FY11 Overseas Contingency Operations Request (OCO): \$152.3M

Increases predeployment readiness by providing adequate Home Station Training to OEF without degrading Availability of LAV fleet during continued conversion to A2 configuration. Providing additional LAV's required to Support Enhanced Mojave Viper, as well as an increasing number of alternate training venues, would degrade LAV availability vis-a-vis the PM's requirement to provide vehicles to the depot for conversion to the more survivable A2 configuration.

Unplanned additions of theatre specific IED jamming devices (high current), as well as situational awareness systems have caused a high degree of electrical failures, leading to deadling vehicles and lowering operational availability. This money will provide the ability to design a short-term electrical fix for vehicles in OEF.

Exhibit P-40a, Budget Item Justif	ication f	or Aggr	egated Items			Date:	February 2010	
Appropriation / Budget Activity				P-1 Item No	menclature:		·	
Procurement, Marine Corps (1109) / 02 Weapons and Comba	at Vehicl	es / 203	8		LIGHT /	ARMORED V	EHICLE (LAV) PIF	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	FY 2011	OCO FY 2011	Total FY 2011
LAV LETHALITY	Α	D	1.5	1.530	0.681	0.000	0.000	0.000
LAV SLEP/PIP (ITSS)	Α	D	186.0	0.003	0.000	0.000	0.000	0.000
Total			187.460	1.533	0.681	0.000	0.000	0.000
Active Reserves			187.460 0.000	1.533 0.000	0.681 0.000	0.000	0.000	0.000

	Appropriation	on/ Budget Acti	vity/Serial No:	P-1 Line Item	Nomenclatu	re:	Weapon Syst	tem Type:	Date:		
Exhibit P-5 - Cost Analysis		nt, Marine Corp and Combat Vel		LIGHT AF VEHICLE					Februa	ry 2010	
		Prior Yrs		FY 09			FY 10			FY 11	
	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
LAV-MODIFICATION											
MODIFICATION KITS	Α	55420	24525	1BL	VAR.	4102	1BL	VAR.	4490	1BL	VAR.
TESTING		273	1557			25			27		
INSTALLATIONS		5268	1386			393			431		
SYS. ENGINEERING/PROGRAM MGT SPT		2641	1913			195			4		
ILS		4842	2683			314			334		
LAV-C2 UPGRADE	А										
HARDWARE			15236	9	1692889	25032	16	1564500	31627	18	1757055
ECO			352			596			670		
REFURBISHMENT			330								
SYS. ENGINEERING/PROGRAM MGT SPT			661			1013			1087		
PVT/FAT			4097								
ILS			3168			2510			2196		
NEW EQUIP TRAINING									411		
LAV-MODIFICATION SURVIVABILITY											
MODIFICATION KITS			130615	1BL	VAR.						
TESTING			3840								
INSTALLATIONS			20020								
ILS			4115								
RADIO EQUIPMENT (VRC-110's)						9400	304	30921			
SURVIVABILITY MODIFICATIONS						3000	1BL	VAR.			

E L'II VI D E CONTA A VI LOTO		on/ Budget Acti		P-1 Line Item		re:	Weapon Syst	tem Type:	Date:		
Exhibit P-5 - Cost Analysis		nt, Marine Corp nd Combat Vel		LIGHT AF VEHICLE					Februa	ry 2010	
		Prior Yrs		FY 09			FY 10			FY 11	
	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
LAV (LAV-25) HARDWARE ILS DATA Baseline Subtotoa	A	49300 117744	15000 229498		3000000	16958 10000 73538		2422571	41277		
FY11 OCO											
LAV-MODIFICATION											
MODIFICATION KITS TESTING INSTALLATIONS	A								3445 100 376		46174
LAV (LAV-25) HARDWARE GFM ILS INSTALLATIONS SYS. ENGINEERING/PROGRAM MGT SPT FY11 OCO Subtota	A I								121362 23650 1000 1200 1200 152333		2528375
TOTAL ACTIVE RESERVES	:	543231 357300 185931	229498 217963 11535			73538 67385 6153			193610 186182 7428		
Reserves LAV-MODIFICATION LAV-C2 UPGRADE LAV-MODIFICATION SURVIVABILITY LAV-25			11535			6153			984 6444		
Reserves Subtota	I		11535			6153			7428		

	Exhibit P-5a - Budget Procurer	ment Hist	tory and Planning						Date:	
								F	ebruary :	2010
Appropriation / Budget Activity/Serial No:		Weapon Sy	stem Type:			m Nomencl				
Procurement, Marine Corps (1109) / 02 Weap	ons and Combat Vehicles / 2038				LIGHT AR	MORED \	/EHICLE (LAV)	PIP		
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY	Unit Cost \$	Specs	Date Revsn	RFP Issue
Fiscal Years	Contractor and Location	Type	Location of 1 CC	Date	Delivery	Each	Offit Cost \$	Avail?	Avail	Date
FY09										
LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1BL	VAR.	NO	N/A	N/A
LAV-MOD SURVIVABILITY	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1BL	VAR.	NO	N/A	N/A
LAV C2 UPGRADE	LOCKHEED MARTIN, OWEGO, NY	FFP	TACOM, Warren, MI	Nov-09	Mar-10	9	1692889	NO	N/A	N/A
LAV (LAV-25)	GDLS, Sterling Heights, MI	FFP	TACOM, Warren, MI	Jun-09	Jun-10	5	3000000	NO	N/A	N/A
FY10										
LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1BL	VAR.	NO	N/A	N/A
LAV-25	GDLS, Sterling Heights, MI	FFP	TACOM, Warren, MI	Jun-10	Jun-11	7	2422571	NO	N/A	N/A
LAV C2 UPGRADE	LOCKHEED MARTIN, OWEGO, NY	FFP	TACOM, Warren, MI	Nov-09	Nov-10	16	1564500	NO	N/A	N/A
LAV MODIFICATIONS										
LAV MOD SURVIVABILITY	Harris Corp., Melbourne, FL	FFP	SYSCOM, Quantico, VA	Feb-10	Jun-10	304	30921	NO	N/A	N/A
LAV MOD SURVIVABILITY	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1BL	VAR.	NO	N/A	N/A
FY11										
LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1BL	VAR.	NO	N/A	N/A
LAV C2 UPGRADE	LOCKHEED MARTIN, OWEGO, NY	FFP	TACOM, Warren, MI	Nov-10	Jul-11	18	1757055	NO	N/A	N/A
FY11 OCO LAV-25	GDLS, Sterling Heights, MI	FFP	TACOM, Warren, MI	Jun-11	Jun-12	48	2528375	NO	N/A	N/A
FY11 OCO LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	TBD	TBD	75	46174	NO	N/A	N/A

	E)	(HIBIT P-3A, INDIVIDUAL MODIFICATION	Date:	February 2010
MODIFICATION TITLE:	LAV-C2 UPGRA	ADE		
MODELS OF SYSTEMS AFFE	CTED:	LAV Command & Control		·

DESCRIPTION / JUSTIFICATION:

The LAV-C2 Upgrade Program is designed to meet and maintain the command and control requirements of the Operational Requirements Document (ORD). The LAV-C2 upgrade will provide a hardware and software module for the LAV-C2 to support complex radio configurations. The upgrade seeks to integrate in the vehicle, those non-developmental hardware and software components that will ensure that the vehicles - and the appropriate LAR unit command element - have the capability to send and receive required voice and data communications to higher, adjacent and subordinate units. The module will provide isolation of critical communications functions in a self-contained module to support a mix of legacy radio and the Joint Tactical Radio System (JTRS). The modification will ensure that the LAV- C2 Upgrade will be a viable weapon system through the service life of the LAV Family of Vehicles.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

MS B 2Q/05 MS C 4Q/09 IOC 4Q/10 FOC 4Q/12

Installation Sche	dule:												###								
	Pr Yr						FY 200	8			FY 2	009			FY	2010			FY 20)11	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs															1		6	6	6	6	6
Outputs															1		6	6	6	6	6

		FY2012				FY20	13			FY2	014			F`	Y2015		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	6	6	4														0	47
Outputs	6	6	4														0	47

METHOD OF IMPLEMENTATION: CONTRACTOR ADMINISTRATIVE LEADTIME: 10 Months PRODUCTION LEADTIME: 8 Months

Contract Dates: NOV 09, NOV 10, NOV 11

Delivery Dates: MAR 10 delivery is for PVT; JUL 10-MAY 12

Exhibit P-3A
Bli No. 203800

Item No. 2 Page 6 of 11

Individual Modification

				Ε>	(HIBI	T P-3A, INDI	IVIDU	JAL MOE	DIFIC	ATION									DATE		Feb	ruary 201	0
MODIFICATION TITLE (Cont):	:	LAV-C2 U	JPGR	ADE																			
FINANCIAL PLAN: (\$ in Millior	ns)																						
Г	DDIO	R YEARS		7 2008		FY 2009	l Ev	′ 2010		Y 2011	1	FY 2012	1		1					т т	C	TO	ΓΛΙ
I	Qty	\$	Qty		Qty	\$	Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$
RDT&E PROCUREMENT Kit Quantity Inst Kits, Nonrecurring	Q.,	Ť	Q.,		9	·		25.032		•		7.002		Ψ	u.y	Ψ	<u>u.y</u>	Ψ		u.y	•	47	78.897 0.000 0.000
Equipment, Nonrecurring																							0.000 0.000 0.000 0.000
Engineering Change Order						0.352		0.596		0.670		0.152											0.000 1.770 0.000 0.000
Other						8.256		3.523		3.484		3.479											18.742 0.000 0.000 0.000 0.000
Installation of Hardware FY 2003 Eqpt kits FY 2004 Eqpt kits FY 2005 Eqpt kits FY 2006 Eqpt kits FY 2007 Eqpt kits FY 2008 Eqpt kits FY 2009 Eqpt kits Delivery Dates: MAR 10 deliv	varv is	for PVT·		O-MAY 1	2																		0.000 0.000 0.000 0.000 0.000 0.000 0.000
Delivery Dates. WAR TO deliv	rery is	101 F V I;	JOL 1	U-IVIA I	_																		
Installment Cost																							
Total Procurement Cost						23.844		29.151		35.781		10.633											99.409

Note: Other includes System Engineering/Program Management Support, Integrated Logistics Support, and New Equipment Training.

F	Y 10 BUDGE	ΤE	XHIE	BIT P	-21	- PRO	DDU	CTIC	ON S	SCH	EDU	JLE								Date	:				Fe	bruar	v 201	0			
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LAV-25 Projected Reset FY 09/10/11	GDLS, Sterling	Heights	, MI														9			12							21		E		
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LAV-C2 UPGRADE	LOCKHEED MA	RTIN/	OWEG	O, NY			1	_	2	2	3	3					10			8			8				18		Е		
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LAV-C2 UPGRADE		09	МС	9	0	9														Α				1				2	2	2	2
LAV-C2 UPGRADE		10	МС	16		16														Α											16
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LAV-RAM SURVIVABILITY (RADIOS)	HARRIS CORP	., Melbo	ourne, F	L			ТВ	D	TB	3D	TE	3D					5						4				9		Е		
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LAV RAM SURVIVABILITY (RA	DIOS)	10	MC	304	200	104	50	50	4																			\vdash	┝	\vdash	0
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	Exhibit P-4	l0, Budget	ltem Justifi	cation Shee	t		Date:		Februa	ary 2010		
Appropriation / Budget /	-						P-1 Item Nome					
	rement, Marine C								M1A1 Firepowe	er Enhancemer	nt	
Program Elements: 0206211M Divisions (M	arine)	Code: A	Other Related	d Program Elem	ents:							
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	314											314
Gross Cost	108.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		123.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	108.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		123.3
Initial Spares	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.4
Total Proc Cost	113.1	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		127.8
Flyaway U/C												
Wpn Sys Proc U/C			_									
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Base Appropriation Request

M1A1 Firepower Enhancement Program (FEP): The FEP system is a suite of upgrades for the M1A1 tank. It will include a second-generation thermal sight, a north finding/far target location capability, an improved eye safe laser range finder, and an improved loaders weapon station. The systems will increase the M1A1 tank crew's ability to detect, recognize, identify, engage and destroy targets. The system enhances the current firepower of the loader's weapon station by providing a secure remotely operated (under armor) platform. The survivability of the loader is greatly enhanced since he will no longer have to expose himself to enemy fire in order to operate his machine gun. It also increases the accuracy of the weapon and the area effectively covered by its fire. It will integrate current/planned situational awareness systems into the M1A1.

Tank Safety Mods/Tools and Test Equipment: Procures and fields the necessary test stands and test support equipment resultant from the fielding of the FEP suite of upgrades to the M1A1 Tank.

Tool Set, M1A1 Tank, 2D ECH: Procure and fields the necessary test support equipment resultant from the fielding of the FEP North Finding Module (NFM) Embedded Global Position Sensor (GPS) Enhancement upgrade to the M1A1 Tank.

		iation/ Budget		P-1 Line Item No	omenclature:		Weapon Sy	stem Type:		Da	ate:
Exhibit P-5 Cost Analysis	Procu Wea	urement, Marine Cor pons and Combat V	ps (1109) / 02 ehicles / 2095	M1A1	Firepower Enhan	cement				Februa	ary 2010
Weapon System		Prior Yrs		FY 2009			FY 2010			FY 2011	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
<u>Baseline</u>											
M1A1 FEP System		82955	11978	42	285190						
System Engineering Support		5449	1706								
Government Engineering Services		1802	492								
Program Management Support		3819	487								
Installation of FEP system		795									
Integrated Logistics Support (Training Equip, Common Support Equip, and Peculiar Support Equip)		3261									
Contractor Logistics Support (CLS) (Repair Facility)		5068									
Retrofit Kits		3660									
Subtotal Baseline		106809	14663								
TOTAL ACTIVE RESERVES		106809 106809 0									

	Exhibit P-5a, Budget Prod	curemen	t History and Planning					Date:	ebruary	2010
Appropriation / Budget Activity/Serial N Procurement, Marine Corps (1109) / 0	No: 02 Weapons and Combat Vehicles / 2095	Weapon S	System Type:		P-1 Line I	tem Nome M1A1	nclature: Firepower Enh			2010
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY09	Raytheon, McKinney, TX	FFP	MARCORSYSCOM, Quantico	Oct-08	Nov-09	42	285190	N/A	N/A	N/A
REMARKS:										

	BUDGE	TEX	HIBIT	P-21,	PROD	OUCTIO	N S	CHE	DU	LE										Date	e:				Febru	uarv 2	2010				
Appropriation Code/CC/BA/BSA/Iten Procurement, Marine Corps (1109) /		Comba	t Vehic	eles / 209	95		Wea	pon S	Syste	m				P-1	Item	Nom	encla	ture:		M1A	1 Fire	epow	/er Eı								
							P	ROD	UCT	ION	RATI	Ε			F	PRO	CURE	MEI	NT LE												
TEM	Manufacturer	's NAM	ИЕ / LC	OCATIO	N		MS	SR	EC	ON	M	ΑX		Γ Prid Oct 1		ALT	After 1	Oct		nitia fg Pl			leord Ifg Pl			то	TAL		Unit Mea	of sure)
M1A1 Firepower Enhancement	Raytheon, M	lcKinn	ey, TX				1	1	1	3	3	0								13			1				13			E	
										Fis	scal	Year	08										Fis		Year						E A
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TEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
M1A1 FIREPOWER ENHANCE	MENTS	09	MC	42		42													Α												42
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		↓																													
										Fi	ical \	/ear	10										Fis	cal '	Year	11					В
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TEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	DEC	J A N	F E B	M A R	A P R	M A Y	JUZ	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J	A U G	S E P	A N C E
M1A1 FIREPOWER ENHANCE	MENTS	09	MC	42		42		10	12	10	10																				C
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	Exhibit P-4	10, Budget	ltem Justifi	ication Shee	et		Date:		Febru	ary 2010		
Appropriation / Budget A	ctivity/Serial No:				P-1 Item Nome	enclature:						
Procurement, Marine Co	orps (1109) / 02 We	apons and Cor	mbat Vehicles	/ 2064			EXPEDITI	IONARY FIRE	SUPPORT SYS	STEM (EFSS)		
Program Elements:			Code:	Other Related	Program Eleme	ents:						
0206211N	1 Divisions (Marine)		Α		•	1		1	1	_		
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	TOTAL
Proc Qty	12	20	20	10	0	10	0	0	0	0		62
Gross Cost	25.9	21.5	19.5	9.7	0.0	9.7	2.0	0.0	0.0	0.0	0.0	78.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	25.9	21.5	19.5	9.7	0.0	9.7	2.0	0.0	0.0	0.0	0.0	78.7
Initial Spares	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Total Proc Cost	26.6	21.5	19.5	9.7	0.0	9.7	2.0	0.0	0.0	0.0	0.0	79.4
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Expeditionary Fire Supsupport the vertical assa Technical Fire Direction EFSS supports irregular The EFSS will use an excomponents for best val	ault element of a St and Control equip r warfare and distrib volutionary acquisit	nip-To-Objective ment necessare outed operation ion strategy wi	re Maneuver (S y for orienting v	STOM) force. The weapons to an a	ne EFSS is defin azimuth of fire.	ned as a Launch	er, Mobility Pla	atform (prime m	over), Ammunii	tion, Ammunitic	on Supply Vehicle	

Exhibit P-5 - Cost Analysis	Procure	riation/ Budget ement, Marine Corps ns and Combat Veh		P-1 Line Item Nom EXPEDITIONARY SYSTEM (EFSS)		Weapon System T	Type:		Date:	February 2010	
Weapon System		Prior Yrs		FY 09			FY 10			FY11	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u> EFSS		11954	20000	20	1000000	19000	20	950000	9500	10	950000
First Article Test / Lot Acceptance Test Integrated Logistics Support (ILS) Factory training Support Equipment Contractor Consulting Services Special Purpose Test Equipment Special Purpose Training Devices Armoring Production Support		130 1816 200 210 495 363 205 8000 974	380			531			223		
LRIP refurbishment Mortar Upgrade/Test PM&E Subtotal Baseline		1200 400 25947	1117 21497			19531			9723		
TOTAL ACTIVE RESERVE		25947 25947 0	21497 21497 0			19531 19531 0			9723 9723 0		

	Exhibit P-5a, Budget Procur	rement His	tory and Planning					Date:	ob muom r	2010
Appropriation / Budget Activity/Serial No:		Weapon Syst	tem Type:		P-1 Line	Item Nomen	nclature:	Fe	ebruary :	2010
Procurement, Marine Corps (1109) / 02 We	eapons and Combat Vehicles / 2064	vvcapon cyc.	.еш турс.	ļ			RY FIRE SUPPO	ORT SY	STEM (EFSS)
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
EFSS										
FY09 EFSS SYSTEM	General Dynamics, St. Petersburg, FL	FFP	MARCORSYSCOM	Jul-09	Jun-10	20	1000000	Yes	No	Mar-04
FY10 EFSS SYSTEM	General Dynamics, St. Petersburg, FL	FFP	MARCORSYSCOM	Mar-10	Aug-11	20	950000	Yes	No	Mar-04
FY11 EFSS SYSTEM	General Dynamics, St. Petersburg, FL	FFP	MARCORSYSCOM	Jan-11	Sep-12	10	950000	Yes	No	Mar-04
REMARKS:										

	E	XHIBI7	Γ P-2 ′	1, PRO	DUCT	ION S	CHE	DUL	Е											Date	:			F	-ebri	uary 2	2010				
	BA/BSA/Item Control No. rps (1109) / 02 Weapons and	Comba	t Vehic	eles/ 206	4		Wea	pon S	Syste	em				P-1	Item	Nom	encla		EDI	ΓΙΟΝ	IAR\	/ FIF	RE S								
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TEM	Manufacture	er's NAI	ME / LO	OCATIO	N		M	SR	EC	ON	MA	ΑX		T Prid		ALT	After 1	r Oct		nitial fg PL			eorde fg PL			то	TAL		Unit Mea	of sure)
EFSS	General D	/namic	s, St. I	Petersb	urg, FL			1	4	4	8	3					3			11						1	3			mor	nth
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TEM					L		<u>'</u>	V	C	N	В	К	К	Y	N	L	G	Р	'	V	C	N	В	ĸ	ĸ	Y	N		G	Р	丄
EFSS		09	МС	20		20																						A			2
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EFSS		09	МС	20		20	t								6		6				8										1
EFSS		10		20		20						Α																	6		1
EFSS		11	MC	10		10																Α									1
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	E	(HIBIT	P-2	1, PRC	DUCT	ION SC	CHE	DUL	E											Date):				Febru	ary 2	2010				
Appropriation Code/CC/E Procurement, Marine Col	BA/BSA/Item Control No. rps (1109) / 02 Weapons and	Comba	t Vehic	eles/ 206	4		Wea	ipon (Syste	em				P-1 I	tem	Nome				TIOIT	NAR'	Y FII	RE S		POR					_	
							Pl	ROD	UCT	ION	I RA	ΤE			PF	ROCI	JRE	MEN	IT LI	EAD	TIMI	ES									
ITEM	Manufacture	r's NAM	ME / LO	OCATIO	N		M	SR	EC	ON	M	AX		Γ Prio Oct 1		ALT	After 1	Oct		Initial fg PL			eord Ifg Pl			то	TAL		Unit Mea	of asure	
EFSS	General Dy	namic	s, St.	Petersb	urg, FL		-	1	4	4	{	8					3			11						1	3			mor	nth
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EFSS		10	МС	20	6	14	6			8																					0
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	Exh	ibit P-40, B	udget Item	Justificatio	n Sheet			Date:		February 201	10	
Appropriation / Budget	Activity/Serial No:					P-1 Item Nome	nclature:					
Procurement, Marine C	Corps (1109) / 02 V	Veapons and C	ombat Vehicle	s / 2185			155	MM LIGHTWEI	GHT TOWED I	HOWITZER (L	W-155)	
Program Elements: 02	206211M Divisions	(Marine)		Code: B	Other Related	Program Eleme	ents:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	409	62	18	0	22	22	0	0	0	0	0	489
Gross Cost	911.1	188.7	61.4	10.4	103.6	114.0	5.6	5.6	0.0	0.0	0.0	1286.2
Less PY Adv Proc	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8
Plus CY Adv Proc	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8
Net Proc (P-1)	911.1	188.7	61.4	10.4	103.6	114.0	5.6	5.6	0.0	0.0	0.0	1286.2
Initial Spares	6.3	4.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9
Total Proc Cost	917.4	193.3	64.3	10.4	103.6	114.0	5.6	5.6	0.0	0.0	0.0	1300.1
Flyaway U/C												0.0
Wpn Sys Proc U/C	2.3	3.0	3.0		3.0		_					11.3
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Base Appropriation Request:

BLI No. 218500

The Lightweight 155mm Howitzer (LW155), also known as the M777A2, provides direct, reinforcing, and general support fires to maneuver forces. It replaces all howitzers in all missions in the USMC and replaces the M198 howitzer as the general support artillery for light forces in the Army. The LW155 fires unassisted projectiles to a range of 15 miles and assisted projectiles to 19 miles, but the addition of the digital fire control system enables the weapon to program and fire the improved Excalibur precision-guided munitions to ranges in excess of 25 miles with better than 10-meter Circular Error Probable (CEP) accuracy.

The LW155 is the first ground combat system whose major structures are made of high strength titanium alloy and the system makes extensive use of hydraulics to operate the breech, load tray, recoil and wheel arms. The combination of titanium structures and the use of hydraulic systems resulted in a significant weight savings over the M198 system (~7000 lbs.). Compared to the M198, the LW155 emplaces three-times faster and displaces four-times faster. It traverses 32 percent more terrain worldwide and is 70 percent more survivable than the M198.

The LW155 was first introduced into the Marine Corps in April 2005 and since then 10th, 11th, 12th and 14th Marines and the schoolhouses have been fielded. The Army has been fielding the system to its Stryker Brigades and Fires Brigades. The LW155 is currently in OEF with both Services.

FY11 Overseas Contingency Operations Request (OCO): \$103.6M

The LW155 is the replacement for the aging M198 Howitzer and provides the USMC cannon artillery capability. The additional quantities are required for pre-deployment training and training pool allowances for maintenance of these new Howitzers in OEF. Requested funding provides for necessary upgrades to address usage problems encountered in Afghanistan - Hydraulic Power Assist (HYPAK), Muzzle Velocity Radar, and Power Distribution Systems. The HYPAK assists the howitzer crew in elevating the howitzer when emplacing and displacing. This increases responsiveness and survivability and addresses the types of missions being conducted in Forward Operating Bases. The Muzzle Velocity Radar is an off-the-shelf replacement for the radar used since the earlier M198 howitzer and which has proven to be problematic. The Power Distribution upgrade allows for use of AC power to recharge on-board batteries that power digital components. Current method of recharge is through running of prime mover (MTVR) and due to 24 hour operations has degraded MTVR assets in theater.

Exhibit P-5 cost Analysis		riation/ Budget ment, Marine			and Combat \			Nomenclatur GHTWEIGHT /ITZER (LW-	TOWED	Weapon Sy	stem Type:	Date:	ebruary 20	010
Weapon System		PYs		FY 2009			FY 2010			FY 2011				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
Baseline BAE Lightweight 155MM WVA Cannon Primer Feed Mechanism Optical Fire Control Basic Initial Issue Systems Engineering/Program Mgt Fest Fielding		667298 83085 9228 12360 10633 31501 26929 21177	145700 15500 1240 2728 1481 11245 2067 6200	62 62 62 62	2350000 250000 20000 44000	42300 4500 360 792 528 3180 583 1734	18 18 18 18	250000 20000						
TAD Refresh/Upgrades Subtotal Baseline		862211	2493 188654			7420 61397			10356 10356					
FY11 OCO BAE Lightweight 155MM WVA Cannon Primer Feed Mechanism Optical Fire Control Basic Initial Issue Systems Engineering/Program Mgt Test Fielding TAD Refresh/Upgrades Subtotal FY11 OCO									51700 5500 440 968 688 3876 711 2117 37600	22 22 22 22 22	250000 20000			
TOTAL ACTIVE RESERVE		862211 862211	188654 188654 0			61397 61397 0			113956 113956 0					

	Exhibit P-5a, Budget Procure	ement His	tory and Planning					Date:	ebruary 2	010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) /	02 Weapons and Combat Vehicles / 2185	Weapon S	System Type:			tem Nome	nclature: EIGHT TOWE	•	•	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY09 GFE-Watervliet Cannon	Watervliet Arsenal	MIPR	N/A	Oct-08	May-09	62	250,000			
GFE - Primer Feed Mechanism	Triump Structures Connecticut, Hartford, CN	MYP/FFP	Picatinny Arsenal, NJ	Oct-08	May-09	62	20,000			
GFE - Optical Fire Control	Seiler, St. Louis, MO	MYP/FFP	Picatinny Arsenal, NJ	Oct-08	May-09	62	44,000			
Lightweight 155MM Howitzer	BAE SYSTEMS	MYP/FFP	Picatinny Arsenal, NJ	Jul-09	Sep-10	62	2,350,000			
FY10										
GFE-Watervliet Cannon	Watervliet Arsenal	MIPR	N/A	Jan-10	May-10	18	250,000			
GFE - Primer Feed Mechanism	Triump Structures Connecticut, Hartford, CN	MYP/FFP	Picatinny Arsenal, NJ	Jan-10	May-10	18	20,000			
GFE - Optical Fire Control	Seiler, St. Louis, MO	MYP/FFP	Picatinny Arsenal, NJ	Jan-10	May-10	18	44,000			
Lightweight 155MM Howitzer	BAE SYSTEMS	MYP/FFP	Picatinny Arsenal, NJ	Mar-10	Oct-11	18	2,350,000			
FY11 OCO GFE-Watervliet Cannon	Watervliet Arsenal	MIPR	N/A	Oct-10	May-11	22	250,000			
GFE - Primer Feed Mechanism	Triump Structures Connecticut, Hartford, CN	MYP/FFP	Picatinny Arsenal, NJ	Oct-10	May-11	22	20,000			
GFE - Optical Fire Control	Seiler, St. Louis, MO	MYP/FFP	Picatinny Arsenal, NJ	Oct-10	May-11	22	44,000			
Lightweight 155MM Howitzer	BAE SYSTEMS	MYP/FFP	Picatinny Arsenal, NJ	Dec-10	Aug-12	22	2,350,000			

EXHIBIT P-21, PROD	UCTION SCHEDULE																			Date):				t		2040				
Appropriation Code/CC/BA/	BSA/Item Control No						Wea	non :	Syste	m				P-1	ltem	Nom	encla	ture:							Febr	uary 2	2010				
	(1109) / 02 Weapons and Co	ombat	Vehicl	es / 218	5			.pon	0,010	,,,,							155N			WEI	GHT	TOV	/ED	HOW	VITZE	R (L	W-15	55)/2 ⁻	185		
•							PI	ROD	UCT	ION	RAT	Έ			PF		URE											- /-			
	Manufacturer's NAI	ME / LO	CATION				M	SR	EC	ON	MA	ΑX			rior	AL	T Af	ter		nitia	l	R	eord							t of	
ГЕМ													to	Oct	: 1	(Oct 1		M	fg Pl	_!	M	fg P	LI.			TAL		Ме	asu	re
ightweight 155MM	BAE SYSTEMS,	Barrow	/-in-Fur	ness, UK				8	1	4	1.	4					2			12			12				14		Е		
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TEM		Y	С	Y	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
ightweight 155MM		08	MC	100	0	100		Α											7	7	7	7	7	7	7	7	7	7	7	7	١.
			Army	203	0	203		Α										14	7	7	7	7	7	7	7	7	7	7	7	7	1
		09	MC	62	0	62																						Α			(
		09	Army	38	0	38																						Α			
		09	FMS	25	0	25																						Α			
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TEM		Y	V C	T Y	E L	A L	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	G	E P	
ightweight 155MM		08	MC	100	84	16	7	5	4																						
		80	Army	203	98	105	7	7	6	10	10	10	10	10	10	10	10	5													
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			Army	38	0	38			Ш		Щ						$\sqcup \sqcup$		5	5	5	5	5	5	5	3					L
			FMS		0	25	—				\sqcup						\square								<u> </u>			5	10	10	
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EXHIBIT P-21, PRODUCTION	N SCHEDULE																			Date):				Febru	uary 2	2010				
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Lightweight 155MM	BAE SYSTEMS,	, Barrov	w-in-Fur	ness, UK			8	3	1	4	1	4					2			12			12			1	4		E		
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Lightweight 155MM																													†		0
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		10	MC	18	0	18	5		5	3																					0
		10	Army	53	0	53	5	5	5	7	10	10	10	1																	0
		10	FMS		0	35								9	10	10	6														0
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	Exhil	bit P-40, Bu	idget Item J	ustificatio	n Sheet			Date:		February 201	0	
Appropriation / Budget	Activity/Serial No:					P-1 Item Nome	enclature:					
Procurement, Marine C	orps (1109) / 02 We	eapons and Co	ombat Vehicles	/2212			H	High Mobility Ar	tillery Rocket S	System (HIMAR	.S)	
Program Elements for 0 0206211M (MC) / 0502		CR)		Code: B	Other Related	Program Eleme	ents:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY 2014	FY 2015	To Complete	TOTAL
Proc Qty												
Gross Cost	402.2	135.1	71.3	22.2	145.5	167.8	14.7	6.8	6.9	7.0	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	402.2	135.1	71.3	22.2	145.5	167.8	14.7	6.8	6.9	7.0	Cont.	Cont.
Initial Spares	13.6	3.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	415.8	138.2	72.4	22.2	145.5	167.8	14.7	6.8	6.9	7.0	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C		_					_					
Reserves	0.0	1.4	1.7	1.7	0.0	1.7	0.0	0.0	0.0	0.0		4.8

Base Appropriation Request:

HIMARS

USMC High Mobility Artillery Rocket System (HIMARS) is a C-130 transportable, wheeled, indirect fire, rocket/missile system capable of firing all rockets and missiles in the current and future Multiple Launch Rocket System Family of Munitions (MFOM). The system includes a launcher, two Re-Supply Systems (RSS) and the MFOM. An RSS consists of a Re-Supply Vehicle (Medium Tactical Vehicle Replacement (MTVR) based truck with Material Handling Equipment) and a Re-Supply Trailer. The MFOM is a family of rockets and missiles capable of attacking a variety of tactical and operational targets, providing the requisite range and lethality to support maneuver commanders.

HIMARS will provide the Fleet Marine Force with 24-hour ground-based, responsive General Support/General Support Reinforcing (GS/GSR) indirect fires which accurately engage targets at long range (60+KM) with high volumes of lethal fire under all weather conditions throughout all phases of combat operations ashore including irregular warfare and distributed operations. HIMARS is a significant improvement over currently fielded ground fire support systems. During a 24-hour period the system will be expected to conduct multiple moves and complete multiple fire missions. HIMARS will satisfy the Marine Corps requirement for an indirect fire system that is responsive, maneuverable, and capable of engaging targets at long range.

HIMARS Rockets are procured training and tactical munitions per the USMC HIMARS Total Munitions Requirement (TMR). The training munitions are the Multiple Launch Rocket System (MLRS) Reduced Range Practice Rocket (RRPR). The rocket has an inert payload section with a blunt nose for inducing reduced range for use at multiple ranges in CONUS. The tactical munitions are the Guided Multiple Launch Rocket System (GMLRS) rocket. The GMLRS integrates a guidance and control package and a new rocket motor to achieve greater range and precision accuracy resulting in reduced logistics footprint for deployed forces. GMLRS is effective against counter fire, air defense, light material, personnel targets and provides greater range and significantly enhanced accuracy.

FY11 Overseas Contingency Operations Request (OCO): \$145.533M

Funding requested to procure rocket pods expended in theater as well as pods required by an additional HIMARS battery. Quantity calculated using recent OCO rocket expenditure data, and adjusting for a second firing unit per guidance.

Exhibit P-5 Cost Analysis		oriation/ Budget A ement, Marine C			and Combat V	ehicles /2212		n Nomenclatur ity Artillery Roo (HIMARS)		Weapon Syster	n Type:	Date:	February 20	10
Weapon System Cost	1	PRIOR YRS					FY 2009	(HIIVIARS)		FY 2010			FY 2011	
Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>														
GROUND EQUIPMENT HARDWARE														
HIMARS Launcher System*	В	118832				18982	7	2711714						
HIMARS Re-Supply System**		28982												
Re-Supply Vehicle						4950	9	550000						
Re-Supply Trailer						108	2	54000						
P3I Upgrades		28574				9173			4112			2781		
ROCKET MUNITIONS HARDWARE														
M28A2 Reduced Range Practice Rocket		4675				2940	98	30000	3366	110	30600	3600	100	36000
M30 Guided Multiple Launch Rocket System		62916												
M31 Guided Multiple Launch Rocket System		116755				88788	151	588000	57624	98	588000	11172	19	588000
LOGISTICS														
Contractor Logistics Support		8508				2718			470			470		
New Equipment Training Team (NETT)		3800				700								
Peculiar Support Equipment		3705				329								
Integrated Logistics Support		8066				650			510					
PROCUREMENT SUPPORT														
Production Engineering (Launcher)		3629												
,														
Government Testing (Launcher)		2647				400			400					
Government Testing (GMLRS)		850				400			400			070		
Multiple Launch Rocket System (MLRS) PMO		910				265			270			270		
USMC HIMARS PMO		5438				2604			2700			2618		
Contractor Consulting Services Subtotal Baseline		3898				2500			1804 71256			1319 22230		
Subtotal Baseline		402185				135107			/1256			22230		
<u>FY11 OCO</u>														
ROCKET MUNITIONS HARDWARE														
M31 Guided Multiple Launch Rocket System												145533	248	588000
Receipt, Storage, Segregation, Inspection														
Subtotal FY11 OCO												145533		
TOTAL		402185				135107			71256			167763		
ACTIVE	*	190438				133680			69547			166062		
RESERVE		211747				1427			1709			1701		
Reserves (where applicable)														
GROUND EQUIPMENT HARDWARE	1													
HIMARS Launcher System*														
Engineering Services, IES						1427			1709			1701		
3					ĺ	1		l				1		1

^{*} The USMC HIMARS Launcher System unit cost includes cost of the Launcher, Launcher Carrier, Carrier Armor, Carrier Radio Sets.

	Exhibit P-5a, Budget Procurer	ment Histo	ry and Planning					Date:	February 2	010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 02 V	Veapons and Combat Vehicles / 2212	Weapon S	ystem Type:		P-1 Line I				stem (HIMA	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
HIMARS Launchers System*										
FY09	Lockheed-Martin, Dallas TX	SS-FFP	Huntsville, AL	Dec-08	Mar-10	7	2711714	Yes		
HIMARS Re-Supply System (RSS)										
FY09 Re-Supply Vehicles	Oshkosh Truck, Oshkosh, WI	SS-FFP	Overtice VA	Mar-09	Nov-09	9	550000	Vaa		
Re-Supply Trailers	Oshkosh Truck, Oshkosh, WI	SS-FFP	Quantico, VA Quantico, VA	Mar-09	Nov-09	2				
Reduced Range Practice Rockets **										
FY08 M28A2 FY09 M28A2 FY10 M28A2 FY11 M28A2	Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX	SS-FFP SS-FFP	Huntsville, AL Huntsville, AL Huntsville, AL Huntsville, AL	Dec-08 Dec-09 Dec-10	Mar-10 Mar-10 Nov-10 Nov-11	30 98 110 100	30000 30600	Yes Yes		
Tactical Munitions Systems (GMLRS)										
FY09 M31 GMLRS FY10 Baseline M31 GMLRS FY11 Baseline M31 GMLRS FY11 OCO M31 GMLRS	Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX	SS-FFP SS-FFP	Huntsville, AL Huntsville, AL Huntsville, AL Huntsville, AL	Dec-08 Dec-09 Dec-10 Jul-11	Aug-10 Feb-11 Feb-12 Sep-12	151 98 19 248	588000 588000	Yes Yes		

REMARK

^{*} The USMC HIMARS Launcher System unit cost includes cost of the Launcher, Launcher Carrier, Carrier Armor, Carrier Radio Sets.

^{**} FY08 RRPRs were contracted in FY09.

	FY 09/10 B	UDGET	EXHI	BIT P-	21, PR	ODUC.	TION	I SC	CHE	DUI	LE									Dat	e:			F	ebru	ary .	2010)			
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M28A2		2009	MC	98		98															Α										98
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HIMARS Re-Supply System (RS	SS)																											П			
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Remarks: Prior year quantities were procured under BLI 205000 (launchers) and BLI 304001(GMLRS). System and Rockets are a joint procurement with the US Army. The fluctuations in the Marine Corps HIMARS schedule above is due to the fact that the Army and FMS order quantities are not included in this exhibit. This is also the reason why the scheduled quantities are below the Economic order quantity.

	FY 09/10 B	UDGET	EXHI	BIT P-	21, PR	ODUC.	TION	ISC	HEI	DUL	E									Date	e:				ehri	larv	2010)			
Appropriation Code/CC/B							Wea	apon	Sys	tem				P-1	Item	Noi	menc														
Procurement, Marine Cor	ps (1109) / 02 Weapons	and Cor	mbat V	ehicles ,	/ 2212																		Rock	ket S	yste	:m (F	AMIH	رRS)			
							PF	ROD	UCT	ION	RAT	Έ					URE														
ITEM	Manufacture	er's NAM	/IE / LC	CATIO	N		MS	SR	EC	ON	MA	λX		Γ Prid Oct			T Aft Oct 1			nitia g Pl			eord fg P			то	TAL			Unit /leas	t of sure
GMLRS	Lockheed M	artin, Da	allas Te	xas			7	7	4	2	8	3		8			2			14			14			1	16			Е	
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M31 GMLRS		2009	MC	99		151							İ								Α								\Box		1
M31 GMLRS		2010	MC	98		98																						1			,
M31 GMLRS		2011	MC	19		19																									•
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M31 GMLRS		2009	MC	99		151	1		\vdash								44	10								9	9	9	35	35	1
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M31 GMLRS OCO		2011	MC	248		248							l														T	Α	\vdash		2
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REMARKS: Rockets are a joint procurement with the US Army. The fluctuations in the Marine Corps GMLRS schedule above is due to the fact that the Army and FMS order quantities are not included in this exhibit. This is also the reason why the scheduled quantities are below the Economic order quantity.

	FY 08/09 B	UDGET	EXHI	BIT P-	21, PR	ODUC	TION	sc	HEI	DUL	.E									Date	e:			F	ebru	uary	2010)			
Appropriation Code/CC/BA/BSA/It Procurement, Marine Corps (1109		ombat Ve	hicles /	2212			Wea	pon	Syste	em				P-1	Item		H	High	Mob				Rocl								
							PF	ROD	UCT	ION	I RA	ΓΕ			PF	ROC	URE	MEI	NT LE	EAD	MIT	ES									
ITEM	Manufacturer's	s NAME	/ LOCA	TION			MS	SR	EC	ON	M	٩X		T Prid	or to	ALT	After 1	· Oct		nitial fg PL			leord Ifg P			то	TAL		Unit Meas		
GMLRS	Lockheed Martin	n, Dallas Te	exas				7		42		83		8			2			14			14			16	6			E		
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ITEM M31 GMLRS			С	Υ	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	В	R	R	Υ	N	L	G	Р	
M31 GMLRS		2011	MC	19		19					3	3	3	3	3	2	2														0
M31 GMLRS OCO		2011	MC	248		248												17	21	19	21	21	22	22	26	26	26	27	Ш		0
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ITEM			С	Υ	L	L	Т	>	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	
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REMARKS: Prior year quantities	were produred under B	1120500	0 (launc	hers) an	4 BH 130	4001(GN	II RS	Sv	etem	and	Rock	ets a	re a i	ioint	nrocu	ıreme	nt wi	th th	e IIS	Δrm	v Tr	a flu	ctua	tions	in th	e Ma	rine (`orne	GMI	RS	

Schedule above is due to the fact that the Army and FMS order quantities are not included in this exhibit. This is also the reason why the scheduled quantities are below the Economic order quantity.

	Exhi	bit P-40, B	udget Item	Justificat	ion Sheet			Date:		February 2	2010	
Appropriation / Budget	Activity/Seria	l No:				P-1 Item Nome	enclature:					
Procurement, Marine (2220	Corps (1109) /	02 Weapon	s and Track	ed Combat \	/ehicles /	Weapons and	Combat Vehic	cles Under \$5	5M			
Program Elements:				Code:	Other Relat	ted Program Ele	ments:					
020621	1M Divisions	(Marine)		Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	349.7	31.5	19.5	26.1	7.3	33.4	18.8	13.6	13.9	13.1		493.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	349.7	31.5	19.5	26.1	7.3	33.4	18.8	13.6	13.9	13.1		493.4
Initial Spares	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.6
Total Proc Cost	350.3	31.5	19.5	26.1	7.3	33.4	18.8	13.6	13.9	13.1		494.0
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0

Base Appropriation Request:

This is a roll-up line that contains multiple Weapons and Tracked Combat Vehicle items. The funds are used 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 Table of Organizational (TOO) changes and Table of Equipment (TOE) changes. Funds also support the ongoing changes to the various stock lists prescribing those components of sets of test equipment and tools. The funds included in this budget line support procurement of the following items:

Company and Battalion Mortars - Provides responsive, all-weather, organic, indirect fire support to the company and battalion commanders of the Ground Combat Element in support of offensive an defensive operations and maneuver.

Infantry Automatic Rifle (IAR) - A magazine-fed, 5.56mm weapon that increases the automatic rifleman's maneuverability and displacement speed, allowing him to keep pace with the rest of the fire team. This program responds to a Universal Needs Statement (UNS) submitted in November 2001 that identified the need for an automatic rifle to replace the Squad Automatic Weapon (SAW) within the infantry. The IAR will be designed for optimal operation by a single Marine and possess increased accuracy and reliability over the M249 SAW.

Infantry Weapons Modifications - The Infantry Weapons Modification program develops joint and Marine Corps unique improvements efforts to infantry weapons and fire support technology. The improvements address critical operational and logistics deficiencies in fielded infantry weapon systems and equipment. The funding permits economical level of effort project participation, to analyze, design, develop, and field modifications. This level of effort funding line allows timely response to safety and performance issues that require immediate attention to maintain operational readiness.

Infantry Weapons Readiness - Funds procurement and sustainment of Infantry Weapons Gauges for all Infantry Weapons Systems (IWS), Universal Weapons racks for all USMC armories in order to store weapons, and associated optics and modifications necessary for the Family of Heavy Machineguns to include Thermal Weapon Sight Brackets for the MK19 and M2 Heavy Machineguns and Hydraulic buffer and hand guard modifications to the medium machine gun.

Multi Shot Grenade Launcher - Additive weapon system to the USMC arsenal to provide a semi-automatic, revolving action, shoulder- fired, 400 mm grenade launcher capable of firing six rounds in three seconds to support Infantry Squads. It will be fielded to support convoy operations at the Division, Regimental, and Battalion level.

Exhibit P-40, Budget Item	n Justifica	tion Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	1 00.00.1
Procurement, Marine Corps (1109) / 02 Weapons and Tracki 2220	ed Combat	Vehicles /	Weapons and Combat Vehicle	les Under \$5M
Program Elements:	Code:	Other Relat	ted Program Elements:	
0206211M Divisions (Marine)	Α			
Principal End item (PEI) Reprocurement - Procures various Infair their initial inventory procurement and have no active procurement				s Command (MARSOC) units and other items which have completed conduct the Marine Corps mission.
Rifle Team Equipment - These items are required to support the N	Marine Corps	shooting team	ns authorized to compete with oth	er Services in competitive shooting matches.
Sniper System Capability Sets - A suite that includes a long rang accomplish defined scout sniper mission essential tasks.	ge precision r	ifle capability,	a semi-automatic precision rifle ca	apability and all the associated ancillary equipment required to
				Material Fielding Support for the Combine Support Function Module, ar th ECH GS Maint Kit; Tool set, M1A1 Tank, 3D ECH, and Test Set,
Tool Sets & Kits - Tool Sets are comprised of special tools and ga M240 Machine Gun, and MK 19 Machine Gun.	auges used by	y Organization	nal Level maintenance personnel t	o inspect, repair and replace parts on specific weapon systems, such as
current AAO is 2873 and the shortfall is 1085. The capacity shortfall	tol (CQC Pisto fall is ~ 40% a Precision Ra this request p	nd the current aid/Direct Actio provides PMC	t production schedule does not sup on capability is a validated capabili funds for replacement of weapons	· · ·

Exhibit P-40a, Budget Item Justification for Aç	ggre	gated I	tems		Date: February 201	0			
Appropriation / Budget Activity				P-1 Item Nome	enclature:				
Procurement, Marine Corps (1109) / 02 Weapons and Tracked Combat Vehic	cles /	2220		Weapons and	Combat Vehic	les Under \$5M			
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	
Tank Safety Mods/Tools and Test	Α	D	5.064	0.232	0.000	0.000	0.000	0.000	
		Q	VAR	VAR					
Infantry Weapons Readiness	Α	D	1.518	0.015	0.306	0.604	0.564	1.168	
		Q	VAR	VAR	VAR	VAR	VAR	VAR	
Rifle Team Equipment	Α	D	0.162	0.140	0.142	0.141	0.000	0.141	
		Q	VAR	VAR	VAR	VAR		VAR	
Sniper System Capability Sets	Α	D	0.000	0.000	4.293	1.096	0.000	1.096	
		Q			VAR	VAR		VAR	
Company & Battalion Mortars	Α	D	5.550	4.929	2.195	2.178	0.000	2.178	
		Q	VAR	VAR	VAR	VAR		VAR	
Tool Sets and Kits	Α	D	0.000	1.814	0.000	0.000	0.000	0.000	
		Q		VAR					
Principal End Item (PEI) Reprocurement	Α	D	7.417	5.523	3.436	3.914	0.000	3.914	
		Q	VAR	VAR	VAR	VAR		VAR	
Total			19.711	12.653	10.372	7.933	0.564	8.497	
Active			19.711	12.653	10.422	7.933	0.564	8.497	
Reserve			0.000	0.000	-0.050	0.000	0.000	0.000	

Exhibit P-5 Cost Analysis	Prod	ropriation/ Budg curement, Marin cked Combat Ve	e Corps (1109	rial No: 9) / 02 W	eapons and	P-1 Line Item No Weapons and Vehicles Unde	Combat	Weapon Syst	em Type:	Date: Febr	uary 2010
	ID	PRIOR YRS		FY 09			FY 10			FY 11	
Weapon SystemCost Elements	C D	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
Infantry Weapons Modifications	Α	8256	6454	VAR	VAR	9035	VAR	VAR	6217	VAR	VAR
Multi Shot Grenade Launcher ACQ/Eng/Log Support	Α	8095	6878 1106	984	6990						
Ancillary Items- Spares, Ammo, Gages, Special Tools, Shipping Cost, Tech Manuals, Training, Test Support Personnel, Program Management Support Cost.			4391								
Infantry Automatic Rifle Eng/Log Support	Α	3321				2	VAR	VAR	11941	3055	3909
Subtotal Baseline		19672	18829			9037			18158		
<u>FY11 OCO</u>											
Infantry Weapons Modifications	Α								6765	VAR	VAR
Subtotal FY11 OCO									6765		
TOTAL ACTIVE RESERVE		19672 19672	18829.16 18829 0			9037 9037 0			24923 24923 0		

	Exhibit P-5a - Budget P	rocureme	nt History and Plannin	g				Date:	ebruary 20	10
Appropriation / Budget Activity/Serial N Procurement, Marine Corps (1109) / 02 Vehicles / 2220		Weapon S	System Type:		P-1 Line Ite		enclature: and Combat	Vehicles	Under \$5M	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY09 Multi Shot Grenade Launcher	TBD	FP	MARCORSYSCOM	Feb-10	Apr-10	984	6990	Yes	N/A	Apr-09
FY11 Infantry Automatic Rifle	TBD	FP	MARCORSYSCOM	Oct-10	Nov-10	3055	3909	Yes	N/A	N/A
REMARKS:										

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Appropriation Code/CC/BA/BS/ Procurement, Marine Corps (11 Vehicles / 2220				Tracke	d Comb		Wea	apon S	Syste	m					tem N				ehicle	s Und	der \$	5M				-					
								PRO	DUC	TION I	RATE					PRO	CURI	EMEI	NT LE	ADT	IMES	3									
ITEM	Manufact	turer's	NAM	E / LOCA	ATION		М	SR	EC	CON	M	AX	ALT I	Prior t	o Oct	ALT	After	Oct 1	Initia	al Mfg	PLT	Re	order PLT	Mfg		TO	TAL		Unit Mea		÷
Multi Shot Grenade Launcher	TBD						5	50	1	40	30	00					16						2				18		E		
Infantry Automatic Rifle	TBD						TI	BD	Т	BD	TE	3D					0			1							1		E		_
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J D L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	A Y	N N	n T	A U G	S E P	C E
Multi Shot Grenade Launcher		09	MC	984	0	984																	Α		82	82	82	82	82	82	492
																															<u> </u>
Infantry Automatic Rifle		11	МС	3055	0	3055																									305
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Multi Shot Grenade Launcher		09	МС	984	492	492	82	82	82	82	82	82																	_		0
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Infantry Automatic Rifle		11	МС	3055	0	3055	Α	257	257	257	257	257	257	257	257	257	257	257	228									F			0
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REMARKS:			I	ı				l		<u> </u>	1							<u> </u>		l	l		<u> </u>	L		<u> </u>		Щ	Щ.		Щ

	Exh	nibit P-40, B	Budget Item	Justificatio	n Sheet			Date:		February 20	10	
Appropriation / Budge	et Activity/Serial	No:				P-1 Item Non	nenclature:					
Procurement, Marine	Corps (1109) / 0	02 Weapons	and Combat \	ehicles / 233	4			Modu	ılar Weapon S	System		
Program Elements: 020	6211M Divisions	s (Marine)		Code: A	Other Relate	d Program Ele	ements:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To complete	Total Prog
Proc Qty	46870											
Gross Cost	193.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		195.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	193.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		195.4
Initial Spares	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.6
Total Proc Cost	194.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		196.1
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0

Modular Weapon System (MWS) is a program consisting of two main variants of the M16 Family of Rifles. They are the M16A4 rifle and the M4/M4A1 carbine. The MWS consists of a rifle/carbine that has been modified by building into the design a military-standard rail in place of the integral carry handle/sight to permit quick mounting of various night/day/thermal sights. Additionally, hand guards with rails are attached to the barrel assembly to mount various accessories such as a modified M203 grenade launching system, flashlights and infrared laser pointers and other such devices. The MWS reduces the number of components required to attach accessories and allows configuration management at the operator level vice the current second and third echelons of maintenance.

Exhibit P-5 Cost Analysis	Proc		dget Activity/Serine Corps (110		eapons ar				menclature System	Weapon	System	Date: Fe	bruary 20	10
	ID	PRIOR		Y 09			FY 10			FY 11				
Weapon System Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCos t \$	TotalCos t \$000	Qty Each	UnitCost \$			
<u>Baseline</u> Modular Weapon System (MWS)		5400												
M16A4 Rifles with Rail Adapter System (RAS)		110671												
M4 Carbines with RAS		56471												
SL3 components for MWS			1892	VAR	VAR									
Subtotal Baseline		172542	1892											
TOTAL ACTIVE RESERVE		172542 172542 0	1892 1892 0			0 0 0			0 0 0					

		Exhibit P-	40, Budget I	tem Justificat	ion Sheet			Date:		February 201	0	
Appropriation / Bud Procurement, Marir	•		ns and Comba	at Vehicles / 206	1	P-1 Item Nome	enclature:		Modification h	(its		
Program Element: 0206211M	Divisions (Ma	rine)	Code: A		Other Related	Program Eleme	ents:	_				
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												<u> </u>
Gross Cost	246.4	177.9	54.9	40.9	12.0	52.9	61.4	111.5	91.6	24.8	Cont	821.5
Less PY Adv Proc												1
Plus CY Adv Proc												l
Net Proc (P-1)	246.4	177.9	54.9	40.9	12.0	52.9	61.4	111.5	91.6	24.8	Cont	821.5
Initial Spares	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	4.5
Total Proc Cost	250.9	177.9	54.9	40.9	12.0	52.9	61.4	111.5	91.6	24.8	Cont	826.0
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Base Appropriation Request

M1A1 TANK BLADE: The M1A1 Tank Blade is a semi-fixed earth moving attachment which provides a mobility/counter-mobility capability for the maneuver element, allowing preparation of fighting positions and rapid clearing of obstacles.

TANK RXBN: The M1A1 Tank RXBN effort addresses electronic obsolescence issues with the primary Line Replaceable Units (LRUs) within the tank hull and turret through the replacement of major components and obsolete circuit cards and electrical components.

M1A1 MOD KIT: The M1A1 Mod Kit Line is established to sustain the technology of the M1A1 Tank, procure and field critical safety related modification kits, and other supporting platforms including Support and Test Equipment while addressing equipment deficiencies, safety related issues, and obsolete components. Funding will also procure and field modifications and upgrade/replace Special Purpose Test Equipment associated with the M1A1 Tank. Also includes miscellaneous tools and test items for the M1A1 tank and associated supporting platforms, and Materiel Fielding Support for the Combined Support Function Module, and the following items: Tool Kit, TV, IM, 3d ECH FM60A1; Tool Set, M1A1 Tank, 4th ECH, ORD Maint Kit; Tool Set, M1A1 Tank, 4th ECH GS Maint Kit; Tool Set, M1A1 Tank, 3D ECH, and Test Set, Simplified Test Equip.

HMMWV Expandable Capacity Vehicles (ECV): The ECV is an improved version of the standard Highly Mobile Multipurpose Wheeled Vehicle (HMMWV) based on the M1114 with a heavier chassis and improved engine. The concept and design of the add on armor kits provide greater tactical flexibility for deploying units or training.

ECV variants purchased in this BLI include:

ECV M1165: Troop and Shelter Carrier, and Troop/MRC/Command Variants. Base unarmored.

ECV M1167A1 w/B Armor Kit: TOW Missile ECV Variant

The current HMMWV ECV procurement strategy is based on the Marine Requirements Oversight Committee (MROC) guidance that every vehicle will have basic armor protection with the capability of taking on full armor protection. The MROC guidance requires 60% of the HMMWV fleet will be fully armored and 40% of the fleet will have the basic Integrated Armor Package (IAP). All ECV with basic IAP are able to be upgraded with additional armor kits.

Marine Corps Transparent Gun Shield / Battery Powered Motorized Traversing Unit (MCTAGS / BPMTU) is the Marine Corps protection for the

M1151A1B1 Armament Carrier Gunner.

M1A1 SURVIVABILITY AND LETHALITY ENHANCEMENT: This enhancement provides 3 crucial product improvements to the M1A1, including added armor, improved weapon station modifications, and counter-sniper protection systems. This effort will ensure that the M1A1 Tank remains combat dominant throughout its life cycle.

INFANTRY WEAPONS MODIFICATIONS: This line item is a roll-up program for supporting the enhancement of small arms equipment/systems. These efforts also address emerging requirements and provide support for investigating safety issues that arise.

TANK, COMBAT, FULL TRACK, 120MM GUN: This line is in support of the 202K end strength increase adding 44 tanks to the Approved Acquisition Objective (AAO) with one tank company to each of the two Tank Battalions and the Depot Maintenance Float Allowance.

BRIDGE BOATS: The Bridge Boat line is a roll up line that provides funds to procure Bridge Erection Boats and associated trailers, Improved Ribbon Bridges, and Rafting Set Ribbon Bridges. These systems provide the Marine Corps with the capabilities required for Marine Expeditionary Forces to overcome wet gap obstacles too wide to be breached or too deep to be forded by combat vehicles. The Bridge Erection Boat supports bridging and amphibious operations The Improved Ribbon Bridge is a floating wet gap bridge system capable of carrying a MLC 80 (tracked) or 100 (wheeled) ton vehicle in stream currents up to 10 feet per second (5.9 miles per hour) and consists of 5 ramp bays and 12 interior bays. The Rafting Set Ribbon Bridge consists of 2 ramp bays and 5 interior bays and provides a MLC 80/100 rafting capability to ferry vehicles and personnel across wet gaps.

JOINT ASSAULT BRIDGE: The Armored Vehicle Launched Bridge (AVLB) Bridge is a scissor type bridge, supporting crossings of up to 70 tons. It is used to cross anti-tank ditches, natural obstacles, road craters and destroyed or weakened bridge spans, using the M60 Tank Chassis as a launch platform.

FY11 OCO:

IMPROVED RECOVERY VEHICLE (IRV): The M88A2 Hercules recovery vehicle is a Product Improvement Program which reuses the fielded M88A1 hull, upgraded with a new engine, transmission, hydraulics, suspension and armor protection, supporting recovery of vehicles weighing up to 70 tons.

The Recovery Vehicle, Full Track, M88 Equip is required in support of Operation Enduring Freedom (OEF) to achieve pre-war asset inventories and to achieve total AAO.

Funding will procure Original Equipment Manufacturer (OEM) systems technical support, safety and reliability related modification kits, logistics support for technical manual life cycle management, configuration status accounting and field retrofit labor and contractor install efforts. Funding is a mix of OCO and LOE Core funding to sustain the fielded assets and procure additional vehicles.

Exhibit P-40a, Budget Item Justific	ation	ı for	Aggregate	d Items		Date:		Februa	ry 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 02 Weapons a	and C	omba	t Vehicles /	P-1 Item	Nomencla		DIFICATIO	N KITS (2	2061)	
2061	1								2001)	
Procurement Items	Code	UOM	Prior Years Total	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
M1A1 SURVIVABILITY/LETHALITY	Α	0.0	0.000	0.041	0.637	0.000	0.000	0.000		
		Q								
M1A1 120MM DATA LINK	Α	0.0	0.000	0.000	0.950	0.000	0.000	0.000		
		Q								
M1A1 ABRAMS COOLING VEST	Α	0.0	0.000	0.000	2.533	0.000	0.000	0.000		
		Q								
M1A1 DRIVER REAR SENSOR	_	0.0	0.000	0.000	1.140	0.000	0.000	0.000		
MIAI DRIVER REAR SENSOR	Α		0.000	0.000	1.140	0.000	0.000	0.000		
		Q								
M1A1 IMPROVED EXTERNAL AUXILARY	Α	0.0	0.000	0.000	1.520	0.000	0.000	0.000		
		Q								
Totals	3		0.000	0.041	6.780	0.000	0.000	0.000		
Active	_		0.000	0.041	6.780	0.000	0.000	0.000		
Reserve)		0.000	0.000	0.000	0.000	0.000	0.000		

Exhibit P-5,		opriation/ Budg rocurement, Ma	arine Corps		Weapons an	d Combat		Nomenclature		Weapon Sys	tem Type:	Date:	bruary 20	10
Cost Analysis		Prior Yrs	VCIII	01037 2001			FY 2009			FY 2010			FY 2011	-
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCost \$
<u>Baseline</u>														
Tank Safety Mods/Tools & Test Equip Tank, Combat, Full Track, 120MM Gun		10020 76270				1653	VAR	VAR						
M1A1 Modification Kit		18580				9068	VAR	VAR	29855	VAR	VAR	25246	VAR	VAR
HMMWV M1165A1B3 HMMWV M1167-Tow Missile Carrier w/ Armor MCTAGS MCTAGS BPMTU/MTU Only MCTAGS Turret Assembly						15756 133957 5708 2116 1635	98 571 229 229 229	160775 234600 24925 9242 7140						
M1A1 Driver's IED Surv. Enhancement. 2-Ton Belly Armor Improved Driver Seats						6400 1600	160 160	40000 10000				10357	VAR	VAR
M1A1 Survivability/Lethality(SLES)														
Improved Recovery Vehicle Logistics Support Activities Engineering Support Mod Kits									856 855 2480	VAR VAR VAR	VAR VAR VAR	956 955 3402	VAR VAR VAR	VAR VAR VAR
M1A1 Special Mission Kits									5540	22	251810			
Electric Generators (Multiple Models) (Various Generators, 2KW, 3KW 10KW, 20KW, 30KW, 60KW, 100KW)									8500	VAR	VAR			
Subtotal Baseline FY11 OCO		104870				177893			48086			40916		
Improved Recovery Vehicle												12000	5	2400000
Subtotal FY11 OCO												12000		
TOTAL ACTIVE RESERVES		104870 104870 0				177893 177893 0			48086 48086 0			52916 52916 0		

	Exhibit P-5a, Budget Procure	ement His	tory and Planning					Date:	February 2	2010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 02 Weapor	ns and Combat Vehicles /2061	Weapon	System Type:		P-1 Line	Item Nor	menclature: Modification			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issu Date
FY09										
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Jan-10	May-10	98	160775	Υ	N/A	N/A
HMMWV M1167-Tow Missile Carrier w/Armor MCTAGS MCTAGS BPMTU/MTU Only MCTAGS Turret Assembly M1A1 Driver's IED Survivability Enhancement-FY09 2-Ton Belly Armor Improved Driver Seats FY10 M1A1 SPECIAL MISSION KITS FY10	AM General Corp, South Bend, IN BAE, Santa Clara, CA BAE, Santa Clara, CA BAE, Santa Clara, CA General Dynamics Land Sys. General Dynamics Land Sys.	FFPO FFPO FFPO FFP FFP	TACOM, Warren, MI. MCSC, Quantico MCSC, Quantico MCSC, Quantico Sterling Heights, MI Sterling Heights, MI	Jan-10 Jan-10 Jan-10 Jan-10 Mar-09 Mar-09	May-10 May-10 May-10 May-10 Oct-09 Oct-09	571 229 229 229 160 160	24925 9242 7140 40000 10000	Y Y Y Y	N/A N/A N/A N/A N/A Feb-09	N/A N/A N/A N/A N/A May-09
FY11										
FY11 OCO										
Improved Recovery Vehicle-FY11	BAE Systems, York, PA	SS-FFP	TACOM, Warren MI	Mar-11	Mar-12	5	2400000	Υ	N/A	Nov-10
REMARKS:	1	ı	1							

FY 08/09 BUDGET E	XHIBIT P-21, PI	RODU	CTION	SCHE	DULE														Date	e:			F	ebru	iary:	2010)			
Appropriation Code/CC/BA/BSA/Item		a ma ha a t	\/abiala	a/ 2001		Wea	apoi	า Sys	stem	1			P-1	Item	No.	meno	clatu	re:		1:4:	4	12								
Procurement, Marine Corps (1109) / 0	2 weapons and C	ombat	venicie	S/ 2061				NI IOT		N RA		1			200							on K	its (2	2061)					
						PI	KUL	1001	IUN	N KA	IE					URE					_							T		
ITEM	Manufacturer's 1	NAME /	/ LOCA	TION		M	SR	EC	ON	M.	AX		Oct	or to 1		T Af Oct 1			Initia fg Pl			eord fg P			то	TAL		Unit Mea	t of asure	е
I20 MM Gun	Anniston Army Depot	, Annisto	n AL				1		1	1	10								3							3			Е	
11A1 Driver's IED Survivability Enhanacement	General Dynamics lar	nd Syster	ms, Sterlir	ng Height	s, MI	:	2	4	4	1	10					5			12						1	7			E	
HMMWV ECVs	AM General Corp	o, Sout	h Bend,	, IN		10	00	10	00	28	383					1						4				5			Е	
MCTAGS/BPMTU/Turret Assembly	BAE, Santa Clara	a, CA				10	00	20	00	4	00					1						4				5			Е	
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2-Ton Belly Armor	09		160		160																		Α							16
Improved Driver Seats	09	MC	160		160																		Α							16
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	Ϊ́Υ	V	Т	Е	Α	С	0		Α	Е		Р	Α	U	U	U	Е	С	0	Ε		Е	Α	Р	Α	U	U	U	Е	Α
ITEM	'	С	Υ	L	L	Т	٧	С	Ν	В	R	R	Υ	Ν	L	G	Р	Т	٧	С	Ν	В	R	R	Υ	Ν	L	G	Р	N
2-Ton belly Armor	09	MC	160		160	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	50
mproved Driver Seats	09	MC	160		160	5	5	5	5				5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	50
HMMWV ECV M1167	09	MC	571		571				Α				2	98	98	98	98	98	79											
HMMWV ECV M1165	09		98		98				Α				98																	
MCTAGS	09		229		229				Α					28																
BPMTU	09	_	229		229				Α				28	28	28	28	28	28	28	28										
MCTAGS Turret Assembly	09	MC	229		229				Α				28	28	28	28	28	28	28	28	5									
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Improved Recovery Vehicle	11	MC	5		5	1	I			1	I		1	1									Α		I	l	1	1		5

FY 08/09 BUDGET EXHIBIT P-	21, PRODUC	TION	I SCI	HEDUL	.E															Date) :			F	- ebru	uary 2	2010				
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M1A1 Driver's IED Survivability Enhancement	t Various						TBD		TBD		TBD		3			3			6			1			10				EA	_	
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2-Ton Belly Armor		09		160	110	50	4	4	4	4	4	4	4	4	4	4	5	5													(
Improved Driver Seats		09	MC	160	110	50	4	4	4	4	4	4	4	4	4	4	5	5											\vdash		0
Improved Recovery Vehicle		11	МС	5		5						2	2	1															Ħ	Ħ	
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	Exhil	oit P-40, Bu	dget Item .	Justificatio	n Sheet			Date: February 2010				
Appropriation / Budget A Procurement, Marine Co	•	apons and Co	mbat Vehicles	/ 2208		P-1 Item Nome	nclature:	WEAPONS EN	IHANCEMENT	PROGRAM		
Program Elements: 0206211M Divi	isions (Marine)			Code:	Other Related	Program Eleme	nts:					
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	120.9	27.0	31.3	13.1	18.6	31.7	15.8	9.7	15.4	21.4	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	120.9	27.0	31.3	13.1	18.6	31.7	15.8	9.7	15.4	21.4	Cont.	Cont.
Initial Spares												
Total Proc Cost	120.9	27.0	31.3	13.1	18.6	31.7	15.8	9.7	15.4	21.4	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont.

Baseline Appropriation Request:

Family of Marine Enhancement Programs (MEP) - Congressionally initiated program that provides an avenue for obtaining equipment and end items that would otherwise be considered low visibility, low cost items. It focuses on equipment that will benefit the individual Marine by reducing the load, increasing survivability, enhancing safety and improving combat effectiveness with emphasis on Non-Developmental Items (NDI) and commercially available items which can be quickly evaluated and fielded. This program is coordinated with the Army's Soldier Enhancement Program and the Special Operations Command.

M203 Grip Pod - A forward handgrip designed specifically to accommodate the M203 Grenade Launcher.

Family of Ballistic Protection Systems includes Full Spectrum Battlefield Equipment (FSBE) - FSBE is designed to replace the old Close Quarters Battle (CQB) suite of equipment and to address the needs of Marines performing Special Operations Capable missions in Maritime Special Purpose Force (MSPF) (i.e. MSPF detachment and helicopter assault company). Less weight, increased positive buoyancy, spare air source, and a cutaway system are all desired quality changes. The FSBE has 2 variants (Individual & Platoon), both of which have 4 configurations (A, B, C & D), and each configuration contains up to 43 components purchased from 6 different vendors with various unit prices and different production schedules.

Operations Other Than War (OOTW) - Supports emerging needs of the Operating Forces as their critical Force Protection requirements continue to evolve. Based on information collected from Marine Corps Center for Lessons Learned (MCCLL), Marine Corps Forces (MARFOR) surveys, and the December 2006 Capabilities Based Analysis (CBA), the current Non-Lethal Weapon Capability Sets (NLWCS) and Anti-Terrorism/Force Protection Capability Sets (AT/FPCS) and includes Force Protection Capability Sets, the Non-Lethal Tube Launched Munitions System (NL/TLMS) and the Green Beam IIIC Visual Hailing and Warning Device (E00537B).

Escalation of Force Equipment (EOFE) - Escalation of Force (EoF)-Supports emerging needs of the Operating Forces as their critical requirements to integrate Escalation of Force into tactics, techniques and procedures (TTP's) continue to grow and maintains legacy systems still utilized by the Operating Forces. Based on information collected from Marine Corps Center for Lessons Learned (MCCLL), Marine Corps Forces (MARFOR) surveys, and the December 2006 Capabilities Based Analysis (CBA), the current Escalation of Force Mission Modules (EoF-MM), Non-Lethal Tube Launched Munitions Systems (NL/TLMS) and LA-9P, and future Mission Payload Module (MPM) and Optical Interruption Device (OID).

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 02 Weapons and Combat Vehicles / 2208 WEAPONS ENHANCEMENT PROGRAM Program Elements: 0206211M Divisions (Marine) Code: Other Related Program Elements: 0206211M Divisions (Marine) FY11 Overseas Contingency Operations Request (OCO) \$18.571: Escalation of Force Equipment-(EOFE) Supports emerging needs of the Operating Forces as their critical requirements to integrate Escalation of Force into tactics, techniques and procedures (TTF continue to grow and maintains legacy systems still utilized by the Operating Forces. Based on information collected from Marine Corps Center for Lessons Learned (MCCLL), Marine Corps Forces (surveys, and the December 2006 Capabilities Based Analysis (CBA), this effort supports the requirement to procure Escalation of Force Mission Modules (EoF-MM) with Optical Interruption Devices.	Exhibit P-40, Budget Item J	Justification	Sheet		Date: February 2010
O206211M Divisions (Marine) FY11 Overseas Contingency Operations Request (OCO) \$18.571: Escalation of Force Equipment-(EOFE) Supports emerging needs of the Operating Forces as their critical requirements to integrate Escalation of Force into tactics, techniques and procedures (TTF continue to grow and maintains legacy systems still utilized by the Operating Forces. Based on information collected from Marine Corps Center for Lessons Learned (MCCLL), Marine Corps Forces (Information Collected Formation	/ 2208		P-1 Item Nomenclature:		
Escalation of Force Equipment-(EOFE) Supports emerging needs of the Operating Forces as their critical requirements to integrate Escalation of Force into tactics, techniques and procedures (TTF continue to grow and maintains legacy systems still utilized by the Operating Forces. Based on information collected from Marine Corps Center for Lessons Learned (MCCLL), Marine Corps Forces (Information Collected Formation Collecte		Code:	Other Related	l Program Elements:	
	FY11 Overseas Contingency Operations Request (OCO) \$18.571: Escalation of Force Equipment-(EOFE) Supports emerging needs of to continue to grow and maintains legacy systems still utilized by the Operations.	ating Forces. Ba	Based on inform	mation collected from Marine Co	orps Center for Lessons Learned (MCCLL), Marine Corps Forces (MARFOR)

Exhibit P-40a, Budget Item J	ustific	cation 1	for Aggrega	ated Items		Date:	ebruary 201	0
Appropriation / Budget Activity: Procurement, Marine Corps (1109) / 02 Weapons and	d Comba	at Vehicle	es / 2208	P-1 Item Nom		NHANCEMEN	T PROGRAM	1
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011
Family of Marine Enhancement Program	Α	D Q	14.934	0.000	3.480 VAR	3.261	0.000	3.261
M203 Grenade Launcher Grip Pods	Α	D Q	0.000	4.107 VAR	0.000	0.000	0.000	0.000
Total Active Reserves			14.934 14.934 0.000	4.107 4.107 0.000	3.480 3.480 0.000	3.261 3.261 0.000	0.000 0.000 0.000	3.261 3.261 0.000

Exhibit P-5 Cost Analysis	Procure	ement, Marine C	Activity/Serial No Corps (1109) / 02 Combat Vehicle	!	P-1 Line Item Weapons	Nomenclatur Enhancement		Weapon Syster	n Type:	Date: Februa	ry 2010
		Prior Yrs		FY 09			FY 10			FY 11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline Family of Ballistic Protection Systems: Full Spectrum Battlefield Equipment (FSBE) - Platoon Kit (Configuration A) - Individual Kit (Configuration B) - Individual Kit (Configuration C) - Individual Kit (Configuration D) FBPS Subtotal	Α	1952 12196 92 14240	14634 14634	VAR	VAR	1933 15642 194 419 18188	VAR VAR VAR VAR	VAR VAR	9172 9172	VAR	VAR
Operations Other Than War (OOTW) Escalation Of Force Equipment (EOFE) Subtotal Baseline		14240	8241 22875	VAR	VAR	9652 27840	VAR	VAR	0 682 9854	VAR VAR	VAR VAR
FY11 OCO Escalation of Force Equipment (EOFE)									18571	VAR	VAR
TOTAL ACTIVE RESERVES		14240 14240 0		0		27840 27840 0			28425 28425 0		

	Exhibit P	-40, Budget	Item Jus	tification	Sheet			Date:		Februa	ry 2010	
Appropriation / Budge	et Activity/Serial	No:				P-1 Item No	menclatur	e:				
Procurement, Marine	Corps (1109) / (03 Guided Mi	ssiles and	Equipment	3006			Gro	ound Based	d Air Defens	se	
Program Elements: 0206211M Divisions ((Marine)			Code: A	Other Rela	ated Program	n Elements	3				
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Program
Proc Qty												
Gross Cost	20.7	8.8	11.4	5.2	0.0	5.2	6.4	9.7	5.6	5.9	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.7	8.8	11.4	5.2	0.0	5.2	6.4	9.7	5.6	5.9	Cont.	Cont.
Initial Spares		0.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	20.7	9.0	13.2	5.2	0.0	5.2	6.4	9.7	5.6	5.9	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C				_					_	_		
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.

Baseline Appropriation Request

Ground Based Air Defense (GBAD) Transformation supports the Low Altitude Air Defense (LAAD) Battalion's mission of Short Range Air Defense (SHORAD) and Force Protection Missions. FY-10 funds will be used to procure HMMWVs and upgraded C4 equipment for integration into A-MANPADS vehicles. The initiatives are:

Advanced Man Portable Air Defense Systems (A-MANPADS): Replaced the Avenger and existing MANPADS (Stinger) vehicles, and retains LAAD Battalion's current Air Defense and self- protection (crew-served weapon) capabilities. Components of the A-MANPADS system include: M240 Machine Gun w/ Medium Thermal Weapons Sight, M2 .50cal Machine Gun w/ Heavy Thermal Weapons Sight, and a Defense Advanced GPS Receiver (DAGR) (replaces current GPS receiver-PLGR). Remote Terminal Unit (RTU): The initiative replaces the current 18lb laptop computer that provides Situational Awareness and Command and Control to the Stinger and A-MANPAD teams. The RTU replacement will interface with legacy Marine Air C2 and be capable of receiving a Common Aviation Command and Control Systems (CAC2S) broadcasted link.

Section Leader Vehicle: This initiative is to procure/ integrate the equipment necessary to field a Section Leader/ Platoon Commander Vehicle for the LAAD Battalions. In the past this capability had no standardization throughout the fleet.

Ground Vehicular Radio Communications (VAA for PRC-150 &117) - The initiative will allow enhancement of the current Marine Corps Air Defense C2 architecture for early warning communication, air and ground situational awareness, and overall control of assets. The PRC-150 & 117 radios will alleviate the data link discrepancy and enable interoperability between Marine Air C2 and the LAAD Battalions by broadcasting an air and ground picture to deployed Stinger Teams.

Missile Integration: The Stinger Missile inventory is approaching shelf life expiration. This initiative will provide/procure a new engagement capability that replaces the Stinger Missile.

Exhibit P-5		ropriation/ B	_	-			P-1 Line It	em Nomer	nclature:	Weapon Type:	System	Date:		
Cost Analysis		curement, M Equipment /		s (1109)	/ 03 Guided	d Missiles	Ground	Based Air	Defense			Fe	bruary 20)10
		Prior Yrs		FY09			FY10			FY11				
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>														
Ground Vehicular Radio Communication VAA for PRC-117	Α		1277	42	30400	1125	37	30400	456	15	30400			
Ground Vehicular Radio Communication VAA for PRC-150	Α		768	24	32000	1024	32	32000	512	16	32000			
M1152 HMMWV	Α		1980	12	165000	2640	16	165000	1320	8	165000			
Remote Terminal Unit Replacement	Α		1427	30	47564	2236	47	47564	856	18	47564			
Section Leader Gateway	Α		977	12	81400	1302	16	81400	651	8	81400			
Refurbishment and Fielding Support	Α	287	2128	VAR	VAR	2651	VAR	VAR	1140	VAR	VAR			
JRE Consortium and Software Updates (A-MANPADS)	Α		223	VAR	VAR	374	VAR	VAR	240	VAR	VAR			
Subtotal Baseline		9300	8780			11352			5175					
TOTAL ACTIVE RESERVES		9300 9300				11352 11352			5175 5175					

	Exhibit P-5a, Budget Pro	ruremen	t History and Planni	na				Date:		
	Exhibit 1 -3a, Budget 1 100	curenten	t mistory and riamin	ig .				Feb	ruary 20	10
Appropriation / Budget Activity/Serial No:		Weapon	System Type:		P-1 Line Item Nome	nclature:				
Procurement, Marine Corps (1109) / 03 Guided I	Missiles and Equipment/ 3006					Ground E	Based Air D	efense		
WBS Cost Elements:		Contract			Date of First	QTY	Unit Cost	Specs	Date	RFP
0206313M Marine Corps Communication Systems	Contractor and Location	Method & Type	Location of PCO	Award Date	Delivery	Each	\$	Avail?	Revsn Avail	Issue Date
FY09										
RTU Replacement	L3 San Diego, CA	C/FP	MCB, Quantico, VA	August-09	March-10	30	47564	Yes	NA	N/A
Section Leader Gateway Vehicular Radio Comm. PRC-117	NSWC Crane, Bloomington, IA Harris, Rochester, NY	WR FFP	MCB, Quantico, VA MCB, Quantico, VA	August-09	March-10 February-10	12 42	81400 30400	Yes Yes	NA NA	N/A NA
Vehicular Radio Comm. PRC-150	Harris, Rochester, NY	FFP	MCB, Quantico, VA	August-09 August-09	February-10 February-10	24	32000	Yes	NA NA	NA NA
HMMWV M1152 Up Armored	General Motors, Morgan, MI	FFP	CO US Army Tank Automotive	June-09	March-10	12	165000	Yes	NA	NA
FY10										
RTU Replacement	L3 San Diego, CA	C/FP	MCB, Quantico, VA	November-09	May-10	47	47564	Yes	NA	N/A
Section Leader Gateway	NSWC Crane, Bloomington, IA	WR	MCB, Quantico, VA	November-09	May-10	16	81400	Yes	NA	N/A
Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-150	Harris, Rochester, NY Harris, Rochester, NY	FFP FFP	MCB, Quantico, VA MCB, Quantico, VA	November-09 November-09	May-10 May-10	37 32	30400 32000	Yes Yes	NA NA	NA NA
			CO US Army Tank		_					
HMMWV M1152 Up Armored	General Motors, Morgan, MI	FFP	Automotive	November-09	August-10	16	165000	Yes	NA	NA
FY11										
RTU Replacement	L3 San Diego, CA	C/FP	MCB, Quantico, VA	November-10	May-11	18	47564	Yes	NA	NA
Section Leader Gateway	NSWC Crane, Bloomington, IA	WR	MCB, Quantico, VA	November-10	May-11	8	81400	Yes	NA	NA
Vehicular Radio Comm. PRC-117	Harris, Rochester, NY	FFP	MCB, Quantico, VA	November-10	May-11	15	30400	Yes	NA	NA
Vehicular Radio Comm. PRC-150	Harris, Rochester, NY	FFP	MCB, Quantico, VA	November-10	May-11	16	32000	Yes	NA	NA
HMMWV M1152 Up Armored	General Motors, Morgan, MI	FFP	CO US Army Tank Automotive	November-10	August-11	8	165000	Yes	NA	NA

REMARKS:

		EXHI	BIT P-2	1, PRC	DUCT	ION S	СН	DUL	E.											Dat	e:			F	ebru	ary :	2010	0			
Appropriation Code/CC/BA Procurement, Marine Corps 3006				and Ed	quipme	nt/	We	apon	Sys	tem				P-1	Item	No	men	clat		Gro	und	Bas	sed A		Defe						
							PF	RODI	JCT	ION	RA	ΓΕ			PRO	OCU	IRFI	MFN							0.0.	100					
0206313M Marine Corps Communication Systems	Manufac	turer's	NAME	/ LOC	ATION		M	ISR	EC	ON	MA	ΑX		T P	rior	AL	T Af	fter	Init	ial N PLT	Иfg	R	eord fg P			то	ΓAL			Unit ⁄leas	t of sure
HMMWV M1152	General Motor	s. Mo	rgan. M					1	6	3	1	0					9			9			8						EΑ		
RTU Replacement	L3 San Diego,		J ,					3		0	1						7			15			5						EΑ		
Section Leader Gateway	NSWC Crane,		ninaton.	IA			_	1	3	3	6						7			4			5						EΑ		
VAA for VRC-117	Harris Corp., F						1	00	25		35						6			15			5						EΑ		
VAA for VRC-150		Harris Corp., Rochester, NY									35						6			8			5		1				EΑ		
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RTU Replacement																	Α							10		10					0
Section Leader Gateway	acement 09 MC 30 eader Gateway 09 MC 12																Α						4.4	6	6						0
VAA for VRC-117 VAA for VRC-150	acement 09 MC 30 eader Gateway 09 MC 12 RC-117 09 MC 42																A		H					14							0
HMMWV M1152		09	MC	12		24 12									Α		Α						12	12 6							0
RTU Replacement		10	MC	47		47														Α						12		12		12	11
Section Leader Gateway		10	MC	16		16														Α						5		6		5	0
VAA for VRC-117		10	MC	37		37														Α						20		17			0
VAA for VRC-150		10	MC	32		32														Α						8	8	8	8		0
HMMWV M1152		10	MC	16		16														Α					-				8	8	0
										H																					
										Fis	cal \	′ ear	201	1									Fisc	al \	ear/	2012	2				В
													Ca	alen	dar `	Year	201	11						Cal	enda	ar Ye	ar 2	2012	2		Α
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RTU Replacement		10	МС	47	36	11		11																							0
RTU Replacement		11	MC	18		18		Α						10		8									Ī						0
Section Leader Gateway		11	MC	8		8		Α						4		4									Ī						0
VAA for VRC-117	· · · · · · · · · · · · · · · · · · ·													10		5															0
VAA for VRC-150	C-150 11 MC 16													8		8															0
HMMWV M1152		11	MC	8		8		Α									4	4													0
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	Exhi	bit P-40, Bu	udget Item	Justificatio	n Sheet			Date:	F	ebruary 2010)	
Appropriation / Budget	t Activity/Serial	No:				P-1 Item Nor	nenclature:					
Procurement, Marine (Corps (1109) / (03 Guided Mi	ssiles and Ed	quipment / 30	11				Javelin			
Program Elements:				Code:	Other Relate	d Program El	ements:					
0206211M Divisions (I	Marine)											
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												0.0
Gross Cost	0.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		35.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Initial Spares	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Proc Cost	0.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0

Base Appropriation Request:

Javelin Block 1 - Procures (245) Javelin Block 1 missiles to replenish Operation Enduring Freedom expenditures. The funding buys new Javelin Command Launch Units (CLU) and provides for upgrades of the CLUs to the Block 1 configuration, which incorporates software, propulsion and warhead improvements over the Block 0.

The Command Launch Unit of the Javelin Weapon System will be upgraded from a Blk 0 configuration to a Blk 1 configuration that consists of the following upgrades:

- Larger Diameter AFOCAL for 9X 12X magnification
- Image Stabilization
- Automatically activates sleep mode when in use
- Optional batteries BA5390 and BA5590
- Standard Video external output
- Technical manual updates
- Training

				Date:					
Exhibit P-40a, Budget Item Justification for Aggregated Ite	ms				February	2010			
Appropriation / Budget Activity/Serial No:				•	P-1 Item Non	nenclature:			
Procurement, Marine Corps (1109) / 03 Guided Missiles and Equipment / 301	1				Javelin				
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	
Javelin CLU Refurbishment	Α	D	0.000	0.548	0.000	0.000	0.000	0.000	
Tota			0.000	0.548	0.000	0.000	0.000	0.000	
Active			0.000	0.548	0.000	0.000	0.000	0.000	
Reserves	-		0.000	0.000	0.000	0.000	0.000	0.000	

Exhibit P-5 Cost Analysis	Proc	iation/ Budget surement, Marine Cor ded Missiles and Equ	ps (1109) / 03	P-1 Line Item No	omenclature: Javelin			vstem Type:		Februa	ate: ary 2010
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost \$000	TotalCost \$000	FY 2009 Qty Each	UnitCost \$	TotalCost \$000	FY 2010 Qty Each	UnitCost \$	TotalCost \$000	FY 2011 Qty Each	TotalCost \$000
<u>Baseline</u>				, ,	-	·				,	
Block 1 Missiles			29400	245	120000						
Govt Engineering Services			2000								
Govt Program Management			3600								
Subtotal Baseline			35000	245	120000						
TOTAL			35000	245							
ACTIVE RESERVE			35000 0	245 0							

	Exhibit P-5a, Budget Prod	urement	History and Planning					Date:	ebruary	2010
Appropriation / Budget Activity/Serial No:		Weapon S	ystem Type:		P-1 Line I	tem Nomer			Bullary	2010
Procurement, Marine Corps (1109) / 03	Guided Missiles and Equipment / 3011						Javelin			
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY Each	Unit Cost \$	Specs	Date Revsn	RFP Is:
Fiscal Years	Contractor and Ecoditori	Type	Eddalon of 1 do	Date	Delivery	Q11 Edoi1	Offic Cook (Avail?	Avail	Date
FY09										
Block 1 Missiles	Javelin Joint Venture Orlando, FL	FFP	CCWS, Redstone Arsenal, AL	Mar-10	Mar-11	245	120000	Y		Apr-0
REMARKS:										

	BUDGE	T EX	HIBIT	P-21,	PROD	UCTIO	N S	CHE	DU	LE										Date	:			F	ebrua	ary 20	010		_		
Appropriation Code/CC/BA/BS Procurement, Marine Corps (1		and E	quipm	ent / 301	11		Wea	pon S	Syste	m				P-1 I	tem I	Nome	ncla	ture:				Já	avelin								
							F	PROD	UCT	ION F	RATE	Ξ [PRO	CUR	EME	NT L	EAD	TIME	S									
ITEM	Manufacturer	's NAM	ME / LC	OCATIO	N		M	SR	EC	ON	MA	XΑ		Γ Prio Oct 1	r to	ALT .	After 1	· Oct		Initia Ifg Pl		Reo	rder PLT	Mfg		то	TAL		Unit Mea	of sure)
Javelin Block 1 Missile	Javelin Joint Ve	enture, (Orlando	, FL			54	40	13	20	200	00		5						27						3	32		MON	IТН	
										Fis	scal '	Year	08										Fis	scal Y	ear (09			I		В
														Cale	enda	r Yea	r 09									dar Y	ear 1	10			A L
ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N J	T U	A U G	S E P	A N C E
Javelin Block 1 Missiles		9 MC 245 245																						Α							245
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TEM Javelin Block 1 Missiles		09	MC	245		245						245																			0
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	Exhi	ibit P-40, B	udget Item .	Justificatio	n Sheet			Date:	i	ebruary 2010)	
Appropriation / Budge Procurement, Marine	-		issiles and Ed	quipment / 30		P-1 Item Nor	nenclature:	Follow	on to SMAW	(FOTS)		
Program Elements: 0206211M Divisions ((Marine)			Code:	Other Relate	d Program El	ements:					
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty	0.0	0.0	0.0	24.6	0.0	24.6	64.2	24.5	24.2	20.0		1C1 F
Gross Cost Less PY Adv Proc	0.0	0.0	0.0	21.6	0.0	21.6	64.3	34.5	21.2	20.0		161.5
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	21.6	0.0	21.6	64.3	34.5	21.2	20.0		161.5
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	21.6	0.0	21.6	64.3	34.5	21.2	20.0		161.5
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0

Baseline Appropriation Request

Follow on to Shoulder-Launched Multipurpose Assault Weapon (SMAW) (FOTS): The solution to the Follow on to Shoulder-Launched Multipurpose Assault Weapon (SMAW) (FOTS) capability requirement has been defined as the SMAW II system. Marine Expeditionary Forces will employ the SMAW II across the spectrum of conflict, under all environmental conditions, to destroy a variety of ground targets. As defined in the FOTS Capability Development Document (CDD), the program will consist of two distinct blocks which will be fielded using an evolutionary (incremental) acquisition strategy:

Block 1: Block 1 will be the SMAW II system consisting of a new launcher, which will be physically and functionally compatible with existing inventory of SMAW rocket variants (High Explosive Dual Purpose, High Explosive Anti-Armor, Novel Explosive and Common Practice (CP)) to replace the existing Mark 153 Mod 0 SMAW launcher. In addition, the SMAW II system will include a multi-purpose (MP), fire-from-enclosure (FFE) encased rocket to be added to the SMAW family of rockets.

Block 2: Block 2 will be the SMAW II wall breaching (WB), FFE encased rocket and the Common Practice (CP), FFE encased rocket to be added to the SMAW family of rockets. This will provide an additional target defeat capability with the WB FFE rocket as well as an improved training capability with the CP FFE rocket.

Exhibit P-5 Cost Analysis	Proc	opriation/ Bud urement, Mari oment / 3016	lget Activity/ ine Corps (1	Serial I 109) / (No: 03 Guided I	Missiles and	Follow	ne Item Nor on to SMA			on System		oruary 20	10
	ID	Prior Yrs					FY09			FY10			FY11	
Weapon Systems Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each		TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>														
SMAW II Launcher (TAMCN E01017M)	Α											13730	130	10561
SMAW II Block 1 MP FFE Round (Ammunition Item)	Α											7653	750	1020
NonRecurring Expenditure (NRE) Production												187		
Subtotal Baseline												21570		
TOTAL ACTIVE RESERVES												21570 21570 0		

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 03 Guided Missiles and	d Equipment / 3016	Weapon Sy	/stem Type:		P-1 Line It		nclature: w on to SMA		ebruary 2	2010				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date				
FY11 SMAW II Launcher (TAMCN E01017M)	NAMMO Talley Mesa, AZ	C/FPI	MCSC, Quantico, VA	Apr-11	Jul-11	130	105615							
SMAW II Block 1 MP FFE Rocket	NAMMO Talley Mesa, AZ	C/FPI	MCSC, Quantico, VA	Apr-11	Jul-11	750	10204							
REMARKS:														

	EXHIBIT P-21, PRODUCTION CODE/CC/BA/BSA/Item Control No. nent, Marine Corps (1109) / 03 Guided Missiles and Equipment / 3016																			Date	э:			F	ebrua	ary 2	010				
		and Fo	guinme	ent / 301	6		Wea	pon S	Syste	m				P-1	ltem	Nome	encla	ture:		Fo	llow	on to	SMA								
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SMAW II Launcher	NAMMO Talley,	Maca /	\7				3	0	10	10	15	50		OCI I			6		IVI	3	-'		·				9		ivicas	Eac	h
SMAW II Block 1 MP FFE Rocket	NAMMO Talley,						5		18		20	_					6			3							9	_	\vdash	Eac	
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		F Y	S V	Т	E	Α	С	0	Е	A	Е	Α	A P	Α	U	U	A U	Е	С	0	Ε	A	Е	Α	A P	Α	U	Ü	U	Ε	C E
ITEM		·	С	Υ	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
SMAW II Launcher		11	MC	130		130							Α			20				20											0
SMAW II Block 1 MP FFE Rocket		11	MC	750		750							Α			50	50	50	50	50	50	150	150	150					igspace		0
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REMARKS:																															

	Exhibit	P-40, Bu	dget Item	Justificat	tion Sheet			Date:		February	2010	
Appropriation / Budge Procurement, Marine	•		ssiles and Eq	uipment / 301	7	P-1 Item Non	nenclature:	Anti-Armor W	eapons Syste			
Program Elements: 0206211M Divisions	(Marine)			Code:	Other Relate	d Program Ele	ements:					
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2104	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	0.0	0.0	71.0	20.3	0.0	20.3	19.9	24.8	0.0	0.0		136.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	71.0	20.3	0.0	20.3	19.9	24.8	0.0	0.0		136.1
Initial Spares												
Total Proc Cost	0.0	0.0	71.0	20.3	0.0	20.3	19.9	24.8	0.0	0.0		136.1
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0

Baseline Appropriation Request:

Anti-Armor Weapon Systems - Heavy (AAWS-H) -AAWS-H provides long range, lethal heavy anti-armor and assault fire to the anti-armor sections in the infantry and tank battalions. In its primary anti-tank role, the system will be used to destroy main battle tanks and other armored vehicles before the firepower and shock action of enemy armor can be brought to bear on USMC formations. In its secondary role, AAWS-H will be employed against vehicles, helicopters and field fortifications of any type. The Improved Target Acquisition System (ITAS) is the solution to the AAWS-H requirement. This funding procures support equipment and services for ITAS program.

Improved Target Acquisition System (ITAS) - An upgrade to the Tube-Launched Optically-Tracked, Wire-Guided (TOW- 2) anti-tank weapon system for the light anti-armor forces. ITAS is considered to be a precision engagement system designed to enhance the Army's ability to dominate the ground maneuver battle. ITAS can be used with all current versions of TOW missiles, and is considered to be the designated primary, future anti-tank missile system platform. This funding procures additional M41 ITAS units and associated support and training equipment. It also procures contractor and government fielding and logistics support.

Exhibit P-5 Cost Analysis		ation/ Budget Activement, Marine Corp			issiles and Equ	ipment / 3017	Anti Armor	m Nomencla Weapons Sy VS-H)		Weapon	System Type:	Date:	ebruary 20	010
		Prior Yrs					FY09			FY10			FY11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline Improved Target Acquisition System									61612	98	628694	16023	22	728310
Contractor Production Services									4929			2341		
PMO Engineering and Logistics Support									4464			1951		
Subtotal Baseline	:								71005			20315		
TOTAL ACTIVE RESERVES									71005 71005			20315 20315		

Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 03 Guided Missiles and Equipment / 3017 WBS Cost Elements: Fiscal Years Contract Method & Type FY10 Improved Target Acquisition System Raytheon, McKinney, TX Raytheon, McKinney, TX FFP CCWS, Redstone Arsenal, AL Mar-11 Mar-13 22 729 Method Apr-13 Apr-13 Apr-13 Apr-13 Apr-13	Spec Avail	(AAWS-H	RFP Issue Da
WBS Cost Elements: Fiscal Years Contract Method & Location of PCO Award Date Date of First Delivery Each Unit Co FY10 Improved Target Acquisition System Raytheon, McKinney, TX FFP CCWS, Redstone Arsenal, AL Mar-10 Apr-12 98 628	Spec Avail	s Revsr	RFP Issue Da
FY10 Improved Target Acquisition System Raytheon, McKinney, TX FFP CCWS, Redstone Arsenal, AL Mar-10 Apr-12 98 628		Avaii	
			Nov-09
	310 Y		Nov-10
REMARKS:			
REMARKS:			

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Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) / 0		and E	quipm	ent / 301	17			apon						P-1		Nome		Ant					ystem	ı - H	eavy	(AAV	VS-H))			
	T						_	ROD			_					ROC															
ITEM	Manufacturer's			CATIO	N		-	SR		ON		IAX	AL	T Pric	or to	ALT		Oct		Initia	l	F	Reord	er	-		TAL		Unit		easure
Improved Target Acquisition System	Raytheon, McKi	nney, T	X					10	3	33		50					5			25							30			Е	
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
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ITEM		F Y	V C	T Y	E L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	0 C T	O V	E C	A N	E B	A R	Р	A Y	U N	U L	A U G	Е	C E
Improved Target Acquisition System		10	MC	98	0	98						Α													H	+	\vdash	┢	+	\vdash	98
Improved Target Acquisition System		11	МС	22	0	22																		Α		F	\vdash	F	F	\vdash	22
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REMARKS:																															

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Appropriation Code/CC/BA/BSA/Iter Procurement, Marine Corps (1109)		and E	quipm	ent / 301	17			apon						P-1		Nome		Ant					ystem	ı - H	eavy	(AAV	VS-H))			
	T							ROD					L			ROC									<u> </u>				_		
ITEM	Manufacturer'			CATIO	N		-	SR		ON		AX	AL	T Pric	or to	ALT		Oct		Initia			Reord	er	-		TAL		Mea	sure	
Improved Target Acquisition System	Raytheon, McKi	nney, T	X				1	10	3	33	5	50					5			25							30	_	士	E	
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	JUL	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
Improved Target Acquisition System	n	10	MC	98	0	98							33	33	32												上	上	士	Н	
Improved Target Acquisition System	n	11	МС	22	0	22																			22		lacksquare	F	lacksquare		
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ITEM		F Y	V C	T Y	E L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	O C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	A U G	E P	C E
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REMARKS:																															

	Exhib	oit P-40, Bu	ıdget Item J	ustificatio	n Sheet			Date:		February 201	0	
Appropriation / Budget	Activity/Serial No:					P-1 Item Nom	enclature:	<u> </u>				
Procurement, Marine C	orps (1109) / 03 G	uided Missiles	and Equipment	/ 3123				Mod	dification Kits (M	lissiles)		
Program Elements:			Code:		Other Relate	d Program Eler	nents:					
0206211	M Divisions (Marine))										
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	490.9	67.6	10.6	3.8	0.0	3.8	4.2	1.4	1.4	1.5		581.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	490.9	67.6	10.6	3.8	0.0	3.8	4.2	1.4	1.4	1.5		581.4
Initial Spares												
Total Proc Cost	490.9	67.6	10.6	3.8	0.0	3.8	4.2	1.4	1.4	1.5		581.4
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Baseline Appropriation Request:

Anti-Armor Weapon Systems - Heavy (AAWS-H) - AAWS-H provides long range, lethal heavy anti-armor and assault fire to the anti-armor sections in the infantry and tank battalions. In its primary anti-tank role, the system will be used to destroy main battle tanks and other armored vehicles before the firepower and shock action of enemy armor can be brought to bear on USMC formations. In its secondary role, AAWS-H will be employed against vehicles, helicopters and field fortifications of any type. The Improved Target Acquisitic System (ITAS) is the solution to the AAWS-H requirement.

AT-4 Launcher Trainers - AT-4 Launcher Trainers are used to simulate live fire. The launchers simulate the size and weight of the real rocket and utilize a 9mm round to simulate noise. Operation Iraqi Freedom / Operation Enduring Freedom (OIF/OEF) reintroduced the AT-4 missile system back into USMC inventory, thereby requiring the use of the trainer to familiarize the operators in the systems operation.

TOW Guided Weapon Mod - The Tube-Launched Optically-Tracked, Wire-Guided (TOW) Missile system modification program will incorporate system safety and capabilities improvements in both the missile and sights. This mod program addresses safety of use issues and system component obsolescence issues, providing corrective integration. Conversion of TOW missiles for training requires the procurement and integration of Missile Ordnance Inhibit Circuit integrated circuitry to preclude missile fly-back and disarming of the warhead in cases of erratic or errant flight.

SMAW Launcher Refurbishment - SMAW Shoulder-Launched Multipurpose Assault Weapon launchers to be refurbished to support OEF operations.

Saber Fielding Support - Procures contractor fielding and training support for the Saber weapon system.

Saber Support Equipment - Procures maintenance and support equipment for the Saber weapon system.

SMAW Tool Kits - Procures SMAW Boresight tool kits to replenish deficiencies.

M72 Trainer Refurbishment - Returning OIF/OEF M72 trainers will be refurbished and reissued.

TOW - Bunker Buster Missile - FY09 funding procures the TOW-BB (Bunker Buster) missile to replenish War Reserve Material Requirements (WRMR) inventories. The TOW-BB provides the capability to defeat the anti-structure target set (i.e. Bunkers, fortifications, and light armored vehicles) defined by the Advanced Anti-Armor Weapon System - Heavy mission requirements.

Exhibit P-40a, Budget Item	Just	ificatio	on for Aggre	egated It	ems		Date:	Feb	ruary 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 03 Guided Mi	ssiles a	and Equi	pment / 3123		P-1 Item N	Nomenclati		ion Kits (Mi	ssiles)	
Procurement Items		UOM	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	,	
Anti-Armor Weapon System Heavy (AAWS-H)	Α	D Q	0.875 VAR	2.371 VAR	2.114 VAR	3.798 VAR	0.000	3.798		
TOW Guided Weapon Mod	Α	D Q	0.600 VAR	2.539 VAR	0.000	0.000	0.000	0.000 VAR		
SMAW Tool Kits	Α	D Q		0.000	0.010 VAR					
M72 Trainer Refurbishment	Α	D Q			0.037 VAR					
SMAW Launcher Refurbishment	Α	D Q			0.350 VAR					
Saber Support Equipment	Α	D Q			4.610 VAR					
Saber Contractor Fielding/Training Support	Α	D			3.5 VAR					
TOTAL	_		1.475	4.910	10.613	3.798	0.000	3.798		
ACTIVE RESERVE	1		1.475 0.0	4.910 0.000	0.000	3.798 0.000	0.000	3.798 0.000		

	nent, Marine Corps (1109) / 03		menclature:		Woapon Cy	stem Type:			ate:
ded N	lissiles and Equipme	ent / 3123	Modification Kits	(MISSILES)		EV 2040				ary 2010
CD		TotalCost \$000		UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
		57720	1200	48100						
		1673								
		3305								
		62698								
		Prior Yrs	Prior Yrs TotalCost \$000 TotalCost \$000 57720 1673 3305	Prior Yrs FY 2009 TotalCost \$000 TotalCost \$000 Qty Each	Prior Yrs FY 2009 TotalCost \$000 TotalCost \$000 Qty Each UnitCost \$ 57720 1200 48100 1673 3305 62698 62698	Prior Yrs FY 2009 TotalCost \$000 TotalCost \$000 Qty Each UnitCost \$ TotalCost \$000 1673 3305 62698 62698	Prior Yrs FY 2009 FY 2010 TotalCost \$000 TotalCost \$000 Qty Each UnitCost \$ TotalCost \$000 Qty Each 57720 1200 48100 1673 3305 62698 62698	Prior Yrs	Prior Yrs	Prior Yrs

Ex	hibit P-5a, Budget Prod	curemen	t History and Planning					Date:	bruary	2010
Appropriation / Budget Activity/Serial No:		Weapon S	ystem Type:		P-1 Line I	tem Nome	nclature:	ГЕ	bluary	2010
Procurement, Marine Corps (1109) / 03 Guided Mi	ssiles and Equipment / 3123						dification Kits (I	vissiles))	
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY Each	Unit Cost \$	Specs	Date Revsn	RFP Issue
Fiscal Years	Contractor and Eccation	Type	LOCATION OF PCO	Date	Delivery	QTT Lacii	Offit Cost \$	Avail?	Avail	Date
FY09										
TOW BB Missiles										
TOW BB IVIISSIES	Raytheon Missile Systems	FFP	CCWS, Huntsville, AL	Dec-09	Dec-11	1200	48100	Yes		Apr-09
REMARKS:					ļ.	ļ.				ļ

	BUDGE	T EX	нівіт	P-21,	PROD	UCTIO	N S	CHE	DU	LE										Date	e:				Febru	ary 2	010				
Appropriation Code/CC/BA/BS/ Procurement, Marine Corps (11		and E	quipm	ent / 312	23		Wea	apon S	Syste	m				P-1 I Modi																	
							F	PROD	UCT	ION F	RATE	=								EAD	TIME	S									
ITEM	Manufacturer's	s NAN	ИЕ / LC	OCATIO	N		M	SR	EC	ON	MA	λX		Γ Prio Oct 1						Initia Ifg Pl	ıl	F	Reord			TO	ΓAL		Unit Mea	of sure	
TOW BB Missiles	Raytheon Mis	sile Sy	stems	, Tucson	n, AZ		12	200	30	00	420	00		2						24						2	6		F	MON	1TH
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	JUL	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J U L	A U G	S E P	A N C E
TOW BB Missiles		09	МС	1200		1200															Α										120
																											H	┢	₩	<u> </u>	1
										Fi	cal Y	'ear	11										Fis	cal `	Year	12		_			В
														Cale	nda	r Yea	ar 11								Calen		ear 1	2			A L A
ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J U L	A U G	S E P	N C E
TOW BB Missiles		09	МС	1200		1200															400		400		400						
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REMARKS:										<u> </u>																	ш				

	Exhibit P-40, Bu	udget Item	Justificatio	n Sheet			Date:		Febr	uary 2010		
Appropriation / Budget Activity/Set	rial No:				P-1 Item Nome	enclature:						
Procurement, Marine Corps (1109	9) / 04 Communications	and Electronic	s Equipment /4	190			UNIT OPERATI	ONS CENTER	/ COMBAT OP	ERATIONS CE	NTER	
Program Elements:	. O		Code:	Other Related	Program Eleme	ents:						
0206313M Marine Corp	s Communication Equip	oment	А	1	1	1		1	ı		_	T
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Program
Proc Qty												
Gross Cost	402.4	92.5	19.8	10.8	112.4	123.2	18.0	21.7	18.2	18.7	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	402.4	92.5	19.8	10.8	112.4	123.2	18.0	21.7	18.2	18.7	Cont.	Cont.
Initial Spares	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	404.1	92.5	19.8	10.8	112.4	123.2	18.0	21.7	18.2	18.7	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C						_						
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.

Baseline Appropriations Request:

Combat Operations Center (COC) - AN/TSQ-239 (V)2/3/4 is a deployable, self-contained, modular, scalable and centralized facility which provides digital, shared Command and Control/Situational Awareness functionalities to enhance the Common Operational Picture (COP) for the Command Element, Ground Command Element, Air Combat Element, and Logistics Combat Element. It is a commercial-off-the-shelf integrated hardware solution using unit provided radios, re-hosted tactical data systems, and available Marine Corps prime movers to transport the system. FY09 funds required for hardware refresh for "G" model 2010 upgrades. FY10 funds required for hardware upgrades for MAGTF COC migration and Integrated Logistic Support. This funding is needed to reequip the OIF systems returning from theatre and upgrading all "E" Model COCs to current "F" Model COCs.

FY11 Overseas Contingency Operations Request (OCO):

Hardware upgrade of CAPSET II, III, and part of IV to the Model G configuration. The Model G upgrade to the Combat Operations Center (COC) AN/TSQ-239(V)2,3,4 brings an increase in capability: network architecture allowing more managed data flow and cache often used data for faster information response times, improved disconnected operations performance, and increased tactical data reliability. Operating forces will have customization of data dissemination and presentation, making command and control (C2) operations within the COC more Warfighter Centric and Warfighter Responsive. In support of 2nd MEB's virtualization and service-oriented architecture in Operation Enduring freedom (OEF) that was levied on them since deploying to OEF. Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan. This is for required modifications to equipment used in theater in direct support of combat operations.

Exhibit P-5, Cost Analysis	Approp	oriation/ Budget A	ctivity/Serial No:				P-1 Lir	ne Item Nome	nclature:	Weapon	System	Date:		
	Procur	ement, Marine Co	orps (1109) / 04 (Communic	ations and E			perations Cer		Type:		E ₄	ebruary :	2010
	Equipn	nent/ 4190						at Operations	Center			1 (-biuaiy i	2010
Wasney Cretem Cost Florents	10.00	Prior Yrs		FY09	11.30	T. (- 10 (FY10		T. (- 10 1	FY11				
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
coc														
(V)2		45000												
Integrated Logistics Support (V)2			2074			451			423					
Program Management Support (V)2		523				807			815					
Capability Blocks			4847			2970			2807					
(V)3		109980	18818	14	1344142									
(V)4		175593	12820											
Integrated Logistics Support (V)3/4		10677	5750			1412			2521					
Program Management Support (V)3/4		23759	5304			2410			1425					
Capability Blocks			21000			11721			2785					
GFE		22660												
Training		15900												
Subtotal Baseline		404092				19771			10776					
EV14 000														
<u>FY11 0C0</u>														
COC									00000		40000000			
(V)1									30600		10200000			
(V)5									5100					
COC on the Move									34250		6850000			
Refresh & Model G Modkits									42474					
Subtotal FY11 OCO									112424					
TOTAL		404000	02460			40774			40000					
TOTAL ACTIVE		404092 404092				19771 19771			123200 123200					
RESERVE		404092	92468			19771			123200					
RESERVE		•				0								
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	Exhibit P-5a, Budget Prod			9				Date: Fe	bruary 2	010
	No:) / 04 Communications and Electronics ment /4190	Weapoi	n System Type:		P-1 Line It Unit C		nclature: Center / Comb	oat Oper	ations Ce	enter
VBS Cost Elements:	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFI Issu Dat
FY09 COC (V)3 (OCO)	General Dynamics Scottsdale, AZ	FFP	Scottsdale, AZ	Jun-09	Jan-10	14	1344142	N	N	N/A
FY11 COC (V) 1 (OCO) COC (V) 5 (OCO) COC OTM (M2C2) (OCO)	General Dynamics Scottsdale, AZ TBD General Dynamics Scottsdale,	FFP	Scottsdale, AZ TBD Scottsdale, AZ	08/11	03/12 03/12	3 36 5	10200000 141667 6850000	N	Z Z Z	N/# N/#

		EXH	IBIT	P-21	, PRO	DUCT	ION SC	HE	DUL	Е											Date	:			F	Febru	ıarv 2	2010				
Appropriation Code/CC/BA/l Procurement, Marine Corps			and I	Electro	nics Equ	uipment ,	/4190	Wea	ipon S	Syste	em				P-1	Item					ns (Cent	ter /	Cor					s Ce	enter		
								PF	ROD	UCT	ION	RA	ГΕ			PF	ROC	URE	MEN	NT L	EAD	TIMI	ES									
	Man	ufacturer's	NAN	ΛΕ / LC	CATIO	N		MS	SR	EC	ON	M	AX	AL	T Pri	or to	ALT	After 1	Oct		Initia fg Pl			eord Ifg Pl			ТО	TAL		Unit Mea	of sure)
COC (V) 2	Gene	eral Dynan	nics S	cottsd	ale, AZ					2	2	;	3					11			12						2	23		E		
COC (V) 3	Gene	eral Dynan	nics S	cottsd	ale, AZ					3	3	-	7					6			15						2	21		E		
COC (V) 4	Gene	eral Dynan	nics S	cottsd	ale, AZ					3	3	-	7					6			12						1	18		Е		
COC (V) 1	Gene	eral Dynan	nics S	cottsd	ale, AZ					1			2					6			12						18			E		
COC (V) 5	TBD									1	2	6	0					2			6							8		Е		
COC OTM (M2C2)	Gene	eral Dynan	nics S	cottsd	ale, AZ						1	-	7					6			12							18		Е		
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ITEM			Υ	V C	T Y	E L	A L	C T	٧	C	A N	E B	A R	R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	G	P	E
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	Ex	hibit P-40, B	Budget Item .	Justification	Sheet			Date: February 201	0			
Appropriation / Budget Ac Procurement, Marine Cor	•	unications and E	Electronics Equip	oment / 4181		P-1 Item Nomen	clature:	REPAIR	R AND TEST EQ	UIPMENT		
Program Elements:				Code:	Other Related P	rogram Elements	:					
0206315M Force Service	Support Group			Α								
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	734.2	89.7	43.9	25.6	16.0	41.6	24.2	26.7	43.4	44.3	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	734.2	89.7	43.9	25.6	16.0	41.6	24.2	26.7	43.4	44.3	Cont.	Cont.
Initial Spares	2.9	1.4	0.3	0.3	0.0	0.3	0.6	0.6	0.6	0.6	Cont.	Cont.
Total Proc Cost	737.1	91.2	44.2	25.9	16.0	41.9	24.8	27.2	44.0	44.9	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C						_						
Reserves	0.0	0.0	0.0	0.0	16.0	16.0	0.0	0.0	0.0	0.0	Cont.	Cont.

Baseline Appropriation Request:

General Purpose Electronic Test Equipment (GPETE): GPETE items are required to support USMC weapon systems that utilize or consist of electronic components. GPETE is essential to the operational readiness of the Marine Corps for the installation, operation, and maintenance (preventive and routine) of electronic weapon systems and equipment in both the USMC operating forces as well as the supporting establishment (Schools/Bases).

General Purpose Mechanical Test Equipment (GPMTE): This program is a combination of many types of test equipment used to diagnose Motor Transport, Ordnance, and Engineer, tracked, wheeled, and stationary equipment. This test equipment is essential in maintaining the readiness of USMC weapon systems in both the Marine Corps operating forces as well as the supporting establishment (Schools/Bases).

General Purpose Tool, Sets, Chests & Kits (TS&K): Funds are used to buy tools to support all types of Marine Corps ground equipment. The program includes over 40 different types of individual mechanic or technician tool kits as well as the larger, mobile or deployable, organizational tool sets.

Autonomic Logistics (AL): AL provides platform-based situational awareness to Marine Corps ground weapon systems. AL interfaces to a weapon system data bus to collect and process sensor data into actionable information. AL provides systems health, fuel and ammo levels, mobile and troop load information to the combatant commander and his supporting staff.

Third Echelon Test System (TETS): The TETS program provides mobile automatic testing on line replaceable units and circuit card assemblies, enabling rapid restoration of weapon systems. Consisting of hardware and software portable equipment, TETS is used by maintenance personnel in troubleshooting of digital/analog, communication/electronic, electro-mechanical, and electro-optical equipment.

Calibration Facilities (CF): This program specifically supports GPMTE, GPETE, and ATE programs. The CF provides a calibration and repair capability to sustain the maintenance capability of the Marine Expeditionary Forces; to test, calibrate and repair USMC Test, Measurement, & Diagnostic Equipment (TMDE) (GPMTE, GPETE, and ATE). TMDE is used to support pre-combat technical inspections and repair of infantry weapons, armor, artillery, missile systems, communications equipment, computers, chemical-biological and nuclear detection equipment, engineer and motor transport equipment.

Marine Corps Automatic Test Equipment (ATE): General purpose ATE and Application Program Set (APS). The ATE integration is the process of combining ATE and APS support to provide dynamic test/diagnostic capabilities to Marine Corps Ground Weapons. The Calibration Facilities allows for the comparison of measurement and test equipment or measurement standard of unknown accuracy to a measurement standard of known accuracy in order to detect, correlate, report or eliminate any variation in the accuracy of the instrument being compared. General purpose ATE allows one tester to support testing of digital/analog, communication electronics, electro-mechanical, and electro-optical assemblies and subassemblies. APSs are used for specific weapon systems to test the assembly as if it were installed and operating in the weapon platform.

Exhibit P-40, Budget Item J	ustification	Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipm	ment / 4181			REPAIR AND TEST EQUIPMENT
Program Elements:	Code:	Other Related Pr	rogram Elements:	
0206315M Force Service Support Group	А			

Electronic Maintenance Support System (EMSS): The Electronic Maintenance Support System (EMSS) is composed of several main components including the Electronic Maintenance Devices (EMD), regional servers, deployment servers, charger racks, and ruggedized deployment cases. EMSS is a rugged organizational-level (O-level), light-weight, one-man portable maintenance device capable of supporting multiple platforms and systems across maintenance communities. EMSS provides a Commercial Off-The-Shelf (COTS) hardware device equipped with network interfaces, Built-In-Test/Built-In-Test Equipment (BIT/BITE) interfaces, and Software Defined Test Instrument (SDTI) General Purpose Electronic Test Equipment (GPETE) capabilities. These hardware capabilities will enable commercial or custom DoD and USMC software capabilities including Interactive Electronic Technical Manuals (IETMs), Computer Based Training (CBT), access to Subject Matter Experts (SMEs) over USMC networks, and other maintenance applications to be hosted on EMSS. With these capabilities, maintainers will make more informed decisions, thereby sustaining force readiness over time.

Marine Corps Expeditionary Shelter System: EMI Maintenance Shelter is a part of the Marine Corps Field Logistics System (MCFLS). This system of support equipment provides for use of standardized shelters which are easily erected, relocated, compatible with current Marine Corps transportation modes, require minimum maintenance, and will protect equipment and functions needed to support Fleet Marine Force (FMF) operations. This shelter presents the unique variation of one 20-foot EMI/EMC shelter and three 10-foot Rigid/EMC shelters being used for special purposes. Each shelter is configured to support its mission. Many of the current communication systems being fielded today require a climate controlled environment in order to perform the required corrective maintenance. These old shelters must be replaced in order to ensure continued support of current and future inventory of Electronic Communication Systems.

Tow Test Equipment: Procures various TOW Weapons Systems support and test equipment to replenish OEF assets.

FY11 Overseas Contingency Operations Request (OCO): \$15.962M

General Purpose Tool, Sets, Chests & Kits (TS&K): Funds are used to buy tools to support all types of Marine Corps ground equipment. The program includes over 40 different types of individual mechanic or technician tool kits as well as the larger, mobile or deployable, organizational tool sets.

Exhibit P-40a, Budget Iten	ı Just	ificati	on for Agg	regated Ite	ems		Date:	February 2010)
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Communication	ons and	l Electro	onics Equipmer	nt / 4181	P-1 Item Nome		AND TEST EQ	UIPMENT	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	
Electronic Maintenance Support System (EMSS)	Α	D Q			1.953 Var	1.986 Var	0.000 Var	1.986 Var	
Tow Test Equipment	A	D Q			0.559 Var				
Total Active			0.000	0.000	2.512 2.512	1.986	0.000	1.986	
Reserves			0.000	0.000	0.000	0.000	0.000	0.000	

Exhibit P-5 Cost Analysis (Page 1 of 2)		riation/ Budget Act			P-1 Line Item I			Weapon Syste	em Type:	Date:	
, , ,	Commu	unications and Elec	ctronics Equipme		REPAIR A	ND TEST EQU					ary 2010
Washen System Cast Floments	ID CD	Prior Yrs TotalCost	TotalCost	FY 09		TotalCost	FY 10	1	TotalCost	FY 11	
Weapon System Cost Elements	ID CD	\$000	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$
Baseline											
General Purpose Electronic Test Equip											
(GPETE)		44167	7344	VAR	VAR	7272	VAR	VAR	3197		VAR
ENGINEERING SUPPORT		3150	1281			1570			1163		
Navy Activities (NSWC & NRL)											
SOFTWARE SUPPORT		1017	328			449			332		
Operating Software											
LOGISTIC SUPPORT		1286	825			972			720		
Training Material											
Factory Training											
Tech Manuals											
Provisioning Data											
Quality Assurance Testing											
New Equipment Training (CBT)		40000	0770	\/A.D.	\/A.D	40000	\/AD	\/AD	5440	\/AD	\/A.D.
GPETE Subtotal		49620	9778	VAR	VAR	10263	VAR	VAR	5412	VAR	VAR
Autonomic Logistics (AL)		87009									
Eng/Tech Svcs		7580									
Training		1630	146			103			96		
Support Equipment		5716	816								
Software Integration		3112									
Logistics Support		4004	1479								
Program Management		4649	2768								
Installation			4643			4449			923		
AL Subtota		113700	9852			4552			1019		
Tools Sets and Kits		34431	17225	VAR	VAR	9526	VAR	VAR	1657	VAR	VAR
Third Echelon Test System		113733	10377	11	943364						
Eng/Tech Svcs		2787	590			795					
Training											
Support Equipment											
Software Integration		1019	200			265					
Logistics Support											
Program Management		336	198			264					
TETS Subtotal		117875	11365			1324					

Exhibit P-5 Cost Analysis (Page 2 of 2)	Procure	riation/ Budget Acti ement, Marine Corp unications and Elec	os (1109) / 04			n Nomenclatui d Test Equipr		Weapon Sys	stem Type:	Date: Februa	ry 2010
		Prior Yrs		FY 09			FY 10			FY 11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline General Purpose Mechanical Test Equip		76622	10579	VAR	VAR	5402	VAR	VAR	5139	VAR	VAR
Calibration Calibration Facility (Transportable) CAL Engineering & Logistics Support Calibration Subtotal		19092 7,555 26,647	880		VAR	5791 4050 9841	VAR	VAR	5862 4056 9918		VAR
Marine Corps Expeditionary Shelter			10127	VAR	VAR						
Marine Corps Automated Test Equip		9141	18672	VAR	VAR	508	VAR	VAR	505	VAR	VAR
Subtotal Baseline		428036	89730			41416			23650		
FY11 OCO Tools Sets & Kits Subtotal FY11 OCO									15962 15962	VAR VAR	VAR VAR
TOTAL ACTIVE RESERVES		428036 428036 0				41416 41416 0			39612 39612 0		

	Exhibit P-5a, Budget Procu	rement H	listory and Planning					Date:	ebruary 2	010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 04 Commu Equipment / 4181	nications and Electronics	Weapon Sy	stem Type:		P-1 Line It		nclature: EQUIPMENT			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY09 Third Echelon Test System	Diamond Mola Enterprises, FL	FFP	MARCORSYSCOM	Jan-09	Mar-09	11	943364	Yes	N/A	N/A

	FY10 BUD	GET	EXHI	BIT P-	21, PR	ODUC	TIOIT	N SC	HEI	DUL	E									Date	e:				F - l		2040				
Appropriation Code/CC/BA/BS/ Procurement, Marine Corps (tions a	nd Ele	ectronic	s Equip	ment /	Wea	apon (Syste	em				P-1	Item	Nom	encla	ature:	:						Febr	uary :	2010				
4181	,,																				epair		Test	Equi	pmer	nt					
							Р	ROD	UCT	ION	RA	ГΕ							NT LI												
ITEM	Manufacture	's NAI	ME / LO	OCATIO	N		М	SR	EC	ON	M	AX		T Prid Oct		ALT	Aftei 1	r Oct		lnitia fg Pl			Reord Ifg Pl			TO	TAL		Unit Mea	of sure	
Third Echelon Test System	DME Orlando	, Florid	da					1	- 2	2	-	4					3			2							5	_	Each	h	
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Third Echelon Test System		09	MC	11	0	11	-															Α		3	4	4		┢	₽	<u> </u>	0
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	A Y	J U	n T	A U G	S E P	N C E
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REMARKS:																															

	Exhib	it P-40, Bud	dget Item	Justification	on Sheet			Date:		February 2010)	
Appropriation / Budget Act	tivity/Serial No:	:			•	P-1 Item Nome	enclature:	-				
Procurement, Marine Corp	ps (1109) / 04 (Communication	is and Electror	nics Equipment	: / 4617			COMBA	AT SUPPORT S	SYSTEM		
Program Elements:		Code:			Other Related	Program Eleme	ents:					
0206313M Marine	Corps	Α	,	1 '	1							
	Prior Years	,	· · · · · · · · · · · · · · · · · · ·	·			· ,		1	í '	To Complete	Total Cost
		FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY2013	FY2014	FY2015		1
Proc Qty			, <u> </u>	1			· · · · · · · · · · · · · · · · · · ·		,	1		1
Gross Cost	64.3	17.6	11.8	32.9	0.0	32.9	24.2	8.2	15.9	14.5	CONT	TBD
Less PY Adv Proc			,				,		,	i '		[
Plus CY Adv Proc							1			· '		
Net Proc (P-1)	64.3	17.6	11.8	32.9	0.0	32.9	24.2	8.2	15.9	14.5	CONT	TBD
Initial Spares	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	TBD
Total Proc Cost	65.0	17.6	11.8	32.9	0.0	32.9	24.2	8.2	15.9	14.5	CONT	TBD
Flyaway U/C			,				,		,	i '		
Wpn Sys Proc U/C												
		,	<u> </u>				<u>, </u>			<u>. </u>		<u> </u>
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Baseline Appropriation Request

GLOBAL COMBAT SUPPORT SYSTEM - MARINE CORPS (GCSS-MC) Global Combat Support System-Marine Corps (GCSS-MC) is the physical implementation of the enterprise Information Technology (IT) architecture designed to support both improved and enhanced Marine Air Ground Task Force (MAGTF) Combat Support Services (CSS) functions and MAGTF Commander and Combatant Commanders/Joint Task Force (CC/JTF) combat support information requirements. The initial program includes all transactional CSS systems related to Supply Chain Management (SCM) and Enterprise Asset Management (EAM) functionality enabled with Service Management functions. When combined, these capabilities are referred to as Logistics Chain Management (LCM) or GCSS-MC/LCM. The primary goal of GCSS-MC/LCM is to provide the capabilities specified in the Logistics Operational Architecture (Log OA). The result of enabling the Log OA is the retirement of legacy applications.

The GCSS-MC/LCM exposes timely mission information to Marine Corps operational and CSS commanders, CC/JTF commanders and their staffs and other authorized users. It exposes information interoperability and common logistics information applications and services across functional areas. GCSS-MC/LCM allows operating forces commanders to base decisions on complete logistics information and make decisions in concert with specific operational tasks. The GCSS-MC/LCM program is procuring capabilities by blocks. The first block is referred to as GCSS-MC/LCM Block 1. GCSS-MC/LCM Block 1 is a subset of the total requirement that focuses on Logistics Management and Execution with Logistics Command and Control requirements necessary to perform those functions in a deployed environment. GCSS-MC/LCM Block 1 is global in scope. It can be deployed under any circumstances, during peace or war, independent of geographical location. The GCSS-MC/LCM Block 1 Capability Development Document (CDD), dated 25 May 2005 and approved in December 2005, establishes the requirements for the entire GCSS-MC portfolio.

Key objectives of the CDD include the following: (1) Deliver integrated functionality across supply, maintenance, transportation, finance, engineering, health, acquisition and manpower systems in accordance with the Marine Corps Logistics Operational Architecture; (2) Provide timely information to Marine Corps operational and CSS commanders, CCs and Joint JTF commanders and their staffs and other authorized users; (3) Allow Operating Forces (OPFORS) commanders to base decisions on complete logistics information and make decisions in concert with specific operational tasks; and (4) Provide users and operators of logistics processes access to information and applications across the spectrum of conflict regardless of location.

The GCSS-MC/LCM Block 1 program received Milestone (MS) A approval on 23 July 2004 from the Milestone Decision Authority, the Deputy Under Secretary of Defense (Networks and Information Integration). The GCSS-MC program was formally designated an Acquisition Category (ACAT) IAM program in March 2004. The GCSS-MC Program successfully completed a Milestone B Review for GCSS-MC/LCM Block 1 on 8 June 2007. The system's current Milestone Decision Authority (MDA) is the Under Secretary of Defense for Acquisition Technology and Logistics (USD AT&L). The GCSS-MC/LCM Block 1 program was re-baselined in December 2008. The program identified the likelihood of a critical change in the September 2008 Major Automated Information Systems (MAIS) MAIS Quarterly Report (MQR) due to the program breaching in the areas of cost, schedule and time to achieve Initial Operating Capability (IOC) within five years of MS A. A Critical Change Team (CCT) was formed and conducted an evaluation of the program. Based on CCT recommendations, the program re-baselined Block 1 cost and schedule and established a revised acquisition strategy.

Exhibi	t P-40, Bud	lget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Comm	unications and E	ectronics Equipment / 4617		COMBAT SUPPORT SYSTEM
Program Elements: 0206313M Marine Corps Communication	Code: A	Other Related F	Program Elements:	
GLOBAL COMBAT SUPPORT SYSTEM - MA	RINE CORPS (G	CSS-MC) Cont'd: The new approach provides for	or two major independent software	releases (Enterprise (Release 1.1) and Deployed Access (Release 1.2)) within

GLOBAL COMBAT SUPPORT SYSTEM - MARINE CORPS (GCSS-MC) Cont'd: The new approach provides for two major independent software releases (Enterprise (Release 1.1) and Deployed Access (Release 1.2)) within Block 1, each with its own IOC and Full Operating Capability (FOC). Combined, these two releases provide the full Block 1 solution capability. The GCSS-MC program is currently pre-MS C. The program will pursue a single MS C decision in February 2010 to authorize entry into limited deployment in support of Enterprise Release First Unit Equipped (FUE) testing and operational testing.

SHARED DATA ENVIRONMENT (SDE) is a component of the GCSS-MC. It will support data warehousing technologies and products to provide one-stop shopping for data supporting Combat Service Support Element SDE (CSSE/SDE) decision-making processes. It will stage CSSE/SDE data and integrate Decision Support Tools to enable Command and Control, situational awareness, and total asset visibility at all levels of command, from the Combatant Commander to the Company Commander. The establishment of the CSSE/SDE will eliminate the need for individual applications to perform these tasks for themselves and will contribute to a more cost-effective, efficient application development environment. Supports hardware infrastructure to refresh hardware purchased in FY09 in support of deployed MAGTF users of GCSS-MC capabilities.

THEATER MEDICAL INFORMATION PROGRAM (TMIP) provides clinical data collection and data transport capability at Care Echelons, Battalion Aid Station, Field Hospital and In-Theater, Rear Area Hospital in a combat or hostile environment involving deployed forces. Medical data transport will be accommodated by collection of medical services data using a form of "electronic data carrier," IT and communications infrastructure, and computer hardware, including the Secure Internet Protocol Routing Network and secure Local Area Networks within a Combatant Commander's Theater of Operations.

FLOODLIGHT SET UPGRADE will provide the Marine Corps with a light, compact, diesel engine, modern trailer mounted, telescopic rotatable floodlight. It will increase lighting capability and availability while decreasing the logistic footprint.

MANPOWER OPERATIONS SYSTEMS (MOS) is a portfolio of enterprise information technology systems and modules that support manpower business operations for the Total Force (active and reserve). The investment in the portfolio improves dataflow and increases reliability, functionality, and accuracy of data while reducing the manpower required to operate and maintain these systems/operations. Development is partially driven by regulatory and policy changes mandated by Congress, Department of Defense (DOD), Department of the Navy (DON), and United States Marine Corps. The systems support all five-tiers of Manpower: Individual Marine; Small Unit Leader; Unit, Installation Personnel Administration Center/Disbursing Echelon; Headquarters Marine Corps Manpower; and Reserve Affairs/ Department of Finance Accounting Service. The MOS portfolio provides support in functional areas such as Permanent Change of Station assignments, retention, mobilization, manpower planning, line of duty determination, personnel accountability, individual augmentation, personnel records management and maintenance, management of case incidents, civilian professional development planning, pay entitlement determinations, promotion and performance evaluations and self service/ visibility of personnel data. MOS interfaces with other systems to provide manpower data and web services functionality for pay and personnel transactions between systems. Systems in the portfolio include Monitor Assignment Support System, Performance Evaluation System, Total Force Retention System, Optical Digital Imaging- Records Management System (ODI-RMS), Class I/II/III (composed of Child and Spouse Abuse, Sexual Assault Incident Reporting Database and Rape and Sexual Assault), Marine Corps Medical Entitlements Data System, Civilian Workforce Development Application, and Manpower Mobilization Assignment System. Additionally, the portfolio includes Total Force Administration System support to the systems in the MOS portfolio.

DEFENSE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM (DIMHRS) is a joint development and implementation of a single personnel and pay system that will support all Military personnel, active, guard, reserve, and retired, and their families through their entire careers and beyond.

AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT) devices encompass a variety of read and write data storage technologies that are used to improve the accuracy, timeliness and handling of combat service support and base support data. These technologies include barcodes, magnetic stripes, integrated circuit cards, optical memory cards, Radio Frequency Identification Devices tags, as well as hardware and software required to create the storage devices, read the information stored on them and integrate that information with other logistics data. Additionally, AIT includes the use of satellites to track and redirect shipments. AIT devices offer a wide range of data storage capacities from a few characters to thousands of bytes. The information on each device can range from a single part number to a self-contained database. The device can be interrogated using a variety of means, including contact, laser of Radio Frequency with the information obtained from those interrogations provided electronically to Automated Information Systems (AIS). Technical services are used to update and maintain fixed infrastructure. Within AIT, the Transportation Systems Portfolio (TSP) funding is utilitized for Contract Engineering Technical Support (CETS) and Post Deployment Software Support and emerging multi-service requirements. The CETS provide engineering analysis, program management, logistics, administrative, and acquisition support for milestone and fielding decisions, training, software testing support, fielding, post deployment support, and analytical and technology assessments. Responsibilities entail administrative functions such as programs financial management, operation support and acquisition documentation, development, testing, IA certification, configuration and life cycle management.

	Justification Sheet		Date: February 2010
		P-1 Item Nomenclature:	1 Columny 2010
inications and Electror	nics Equipment / 4617		COMBAT SUPPORT SYSTEM
de:	Other Related	Program Elements:	
4			
lio provides the tools and PS will provide the techniner systems to utilize man TEM (TFSMS) is the Mar ablishes the Marine Corps ardize force structure represents intelligence softwomans.	d data to support the creation of actical solution for process improvem inpower data in model analysis and time Corps authoritative data sources baseline for readiness reporting, resentation by providing the Marin vare for the development of standard sources.	ctive and reserve modeling of acce ent and will strategically align man d future year planning efforts. MP: the for force structure data and provalustifies resource requirements are e Corps Global Force Management	ession, recruiting, training, classification, retention, promotion, mobilization, apower systems/functional process with the Command, Control, Communications S will procure IT hardware to support the systems in the portfolio. Arider of the Marine Corps Tables of Organization and Equipment. TFSMS defines and allocation and enables Marine Corps compliance with the Joint Staff and Office int Organizational Server. TFSMS is a web-based system built on the Oracle E-
	ode: A Ifolio of systems, consisti Jio provides the tools and PS will provide the techn her systems to utilize ma TEM (TFSMS) is the Mar ablishes the Marine Corp ardize force structure rep usiness Intelligence softw	A tfolio of systems, consisting of the legacy Manpower Model blio provides the tools and data to support the creation of ac PS will provide the technical solution for process improvem ther systems to utilize manpower data in model analysis and TEM (TFSMS) is the Marine Corps authoritative data source ablishes the Marine Corps baseline for readiness reporting, ardize force structure representation by providing the Marine	Inications and Electronics Equipment / 4617 Inde: A Other Related Program Elements: Other Related Program Elements: Other Related Program Elements: Other Related Program Elements: If olio of systems, consisting of the legacy Manpower Models, the Total Force Data Warehouse on the solid provides the tools and data to support the creation of active and reserve modeling of accepts will provide the technical solution for process improvement and will strategically align mare her systems to utilize manpower data in model analysis and future year planning efforts. MP TEM (TFSMS) is the Marine Corps authoritative data source for force structure data and provabilishes the Marine Corps baseline for readiness reporting, justifies resource requirements are ardize force structure representation by providing the Marine Corps Global Force Management usiness Intelligence software for the development of standard and ad-hoc queries. Hardware

Exhibit P-40a, Budget	ltem Justifi	cation for	Aggregated I	tems				Date:	Februai	ry 2010				
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Commu	nications an	d Electroni	cs Equipment	/ 4617		P-1 Item N			ORT SYS	TEM				
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Cost
Floodlight Set Upgrade	A	D Q	4.000	4.152	0.462	0.000	0.000	0.000	0.000	0.000	0.000	0.000	CONT	TBD
Theater Medical Information Program (TMIP)	Α	D Q	3.184	1.952	0.137	0.139	0.000	0.139	0.137	0.140	0.143	0.147	CONT	TBD
Manpower Operations Systems (MOS)	Α	D Q	1.576	0.617	0.841	0.547	0.000	0.547	0.634	0.651	0.669	0.687	CONT	TBD
Defense Integrated Military Human Resources System (DIMHRS)	Α	D Q	0.000	0.097	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	CONT	TBD
Manpower Planning Systems (MPS)	A	D Q	0.199	0.275	0.288	0.280	0.000	0.280	0.289	0.295	0.295	0.312	CONT	TBD
Total Force Structure Management Systems (TFSMS)	Α	D Q	0.000	0.000	0.000	0.000	0.000	0.000	4.388	0.000	0.645	0.000	CONT	TBD
Transportation Systems Portfolio (TSP)	A	D	0.000	4.724	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	CONT	TBD
Total Active Reserves			8.959 8.959 0.000	11.817 11.817 0.000	1.729 1.729 0.000	0.966 0.966 0.000	0.000 0.000 0.000	0.966 0.966 0.000	5.448 5.448 0.000	1.086 1.086 0.000	1.752 1.752 0.000	1.146 1.146 0.000		

Exhibit P-5 Cost Analysis	Procurement, I	Budget Activity/\$ Marine Corps (1: ns and Electroni	109) / 04	P-1 Line Item N	Nomenclature:	YSTEM	Weapon Sy	rstem Type:	Date:	February 2010	
Weapon System		Prior Yrs		FY09			FY10			FY11	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
BASELINE GLOBAL COMBAT SUPPORT SYSTEM-MARINE CORPS (GCSS-MC): LOGISTICS CHAIN MANAGEMENT Hardware Software Operations Planning/Preparation/Testing Systems Installation Systems Training Specialized Hardware (Secret And Below Information (SABI) Guard LOGISTICS COMMAND AND CONTROL SYS Systems Training Systems Installation GCSS TOTAL AUTOMATIC INFORMATION TECHNOLOGY (AIT): Software Licenses (Enterprise Non- Oracle) Hardware Equipment (Non- NMCI) Software	A A	10338 6750 800 4393 1589 2500 500 500 27370 1881 2537 2205	5777	VAR VAR	VAR VAR	2916 245 200 239 970 4570 625 4871 0	VAR VAR VAR VAR VAR	VAR VAR VAR VAR VAR	4400 728 730 27158	VAR VAR VAR VAR	VAR VAR VAR VAR
AIT TOTAL Subtotal Baseline		6623 33993	5777 5777			5496 1 0066			4753 31911		
TOTAL ACTIVE RESERVES		33993 33993 0	5777 5777 0			10066 10066 0			31911 31911 0		

Exhibit P-5 Cost Analysis	Procure	riation/ Budge ement, Marine nic Equipment	Corps (1109)		nications and		Nomenclatui		Weapon Sy	stem Type:	Date:	ebruary 2010)
W 0 1			FY12			FY13			FY14			FY15	
Weapon System Cost Elements	ID CD	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
BASELINE GLOBAL COMBAT SUPPORT SYSTEM-MARINE CORPS (GCSS-MC): LOGISTICS CHAIN MANAGEMENT Hardware Software Operations Planning/Preparation/Testing Systems Installation Systems Training Specialized Hardware (Secret And Below Information (SABI) Guard	Α	2600 8300 367	VAR VAR VAR	VAR VAR VAR				9996	VAR	VAR	9335	VAR	VAR
LOGISTICS COMMAND AND CONTROL SYS Systems Training Systems Installation GCSS TOTAL	А	11267			0			9996			9335		
AUTOMATIC INFORMATION TECHNOLOGY (AIT): Software Licenses (Enterprise Non- Oracle) Hardware Equipment (Non- NMCI) Software AIT TOTAL Subtotal Baseline		989 6501 7490 18757	VAR VAR	VAR VAR	1220 5911 7131 7131	VAR VAR		1193 2934 4127 14123	VAR	VAR VAR	1177 2821 3998 13333		VAR VAR
TOTAL ACTIVE RESERVES	D	18757 18757 0			7131 7131 0			14123 14123 0			13333 13333 0		

	Exhibit P-4	0, Budget I	tem Justific	ation Sheet		Date:			February 2010)		
Appropriation / Budget Activity/S	erial No:			P-1 Item Nomencla	iture:							
Procurement, Marine Co	rps (1109) / 04 N	Modification Kits	3 / 4652					Modification Kit	S			
Program Elements:		Code:	Other Related Pro	gram Elements:								
0206313M		Α										
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	18.5	18.5	0.0	0.0	0.0	0.0	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	18.5	18.5	0.0	0.0	0.0	0.0	Cont	Cont
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	18.5	18.5	0.0	0.0	0.0	0.0	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Base Appropriation Request: N/A

FY11 Overseas Contingency Operations Request (OCO):

The Biometric Automated Toolset (BAT) can collect and store biometric information, to include fingerprints, iris scans and facial images, and will be able to "match" personnel whose biometrics corresponds to a record in its stored data. Information from networked BAT-Clients will be sent to BAT-Servers. The BAT-Servers will update other BAT-Servers and will provide information to the biometrics intelligence process for further analysis.

This funding will procure 335 Printers, Laptop computers and Client Suites to support Biometric Automated Toolset System (BATS). BATS is a fully fielded capability with a three-year refresh cycle. This funding will refresh Badge Printers and Client Suites for the MAGTF Integrated Systems Training Center (MISTC) supporting Operation Enduring Freedom (OEF).

Intelligence Analysis System Mod (IAS) Family Of Systems (FoS) provides intelligence support to Marines garrison, shipboard, and battlefield missions at all levels of the MAGTF. This support includes the formulation and/or compilation of the commander's Priority Intelligence Requirements (PIR), Essential Elements of Information (EEI), and Other Intelligence Requirements (OIR); contingency planning; management of MAGTF collection assets; all-source intelligence analysis, briefing support, intelligence product fusion, production, reporting dissemination and training. The IAS FoS has proven to be the All-Source Fusion Center that provides interoperable scalable, semi-automated capabilities to receive, process, analyze, display and disseminate all-source intelligence, including imagery, to support timely tactical decision-making across MAGTF.

Communication Emitter Sensing and Attacking System (CESAS) is an advanced Electronic Attack (EA) system that can be mounted in a variety of platforms including High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), waterborne platforms, helicopters, and the MV-22 aircraft. The system provides Marine Air-Ground Task Forces (MAGTFs) with the capability to detect, disrupt and deny enemy radio communications during amphibious assaults and subsequent operations ashore. The system is being integrated into existing armored vehicle assets, currently M1165s HMMWVs and into an Mine Resistant Ambush Protected (MRAP) vehicle by FY10.

Exhibit P-40a, Budget Item Ju	stificati	ion for	Aggregated	Items		Date:	ebruary 20	10		
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Modification Kits / 40	652			P-1 Item Non	nenclature:	N	lodification	Kits		
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
BAT Client Servicers	Α	D	0.000	0.000	0.000	0.000	2.025	2.025		
		Q					135	135		
BATClient	А	D	0.000	0.000	0.000	0.000	0.350	0.350		
		Q					100	100		
BAT Base printers	A	D	0.000	0.000	0.000	0.000	0.340	0.340		
BAT Bade pinnere		Q	0.000	0.000	0.000	0.000	100	100		
Intelligence Analysis System, Mod Kit	A	D	0.000	0.000	0.000	0.000	0.650	0.650		
	1									
	+									
	+									
Total	s		0.000	0.000	0.000	0.000	3.365	3.365		
Activ				0.000	0.000	0.000	3.365	3.365		
Reserve	s			0.000	0.000	0.000	0.000	0.000		

Exhibit P-5, Cost Analysis			Budget Activity/Seria Marine Corps (1109)		n Kits / 4652			P-1 Line Item N Modification Kit			Weapon System	n Type:	: Date: February 2010	
Weapon System		Prior Yrs		FY 09			FY10			FY 11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
FY11 OCO														
CESAS														
CESAS Systems									15180	Var	Var			
Subtotal FY11 OCO									15180					
TOTAL ACTIVE Reserves									15180 15180					

		Exhibit P-4	I0, Budget It	em Justificat	ion Sheet			Date: February 20	10			
Appropriation / Budget A	activity/Serial No:					P-1 Item Nome	enclature:					
Procurement, Marine Co	orps (1109) / Comm	nunications and	Electronics Equi	pment (4) / 4620				ITEMS U	NDER \$5M (CO	OMM & ELEC)		
Program Elements:				Code:	Other Related P	rogram Eleme	nts:					
0	206315M Division	s (Marine)		Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	79.3	10.3	7.7	3.4	11.5	15.0	5.9	5.1	5.1	5.2	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	79.3	10.3	7.7	3.4	11.5	15.0	5.9	5.1	5.1	5.2	Cont.	Cont.
Initial Spares	0.5											
Total Proc Cost	79.8	10.3	7.7	3.4	11.5	15.0	5.9	5.1	5.1	5.2	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Baseline Appropriation Request:

Public Affairs Equipment: is to support the United States Marines Joint Force Commander by communicating the truth and factual, unclassified information about DOD activities to the United States, allied, national, international and internal audiences. PAC integrates audio, video, imagery and digital communications equipment into lightweight, modular, deployable packages. PAC allows the Marine Forces to collect, receive, process and disseminate Public Affairs information from overt, controlled, sensitive, technical and tactical operations. The information and data passed by PA detachments is often sensitive both in material contained and for the audience intended. While there will rarely be classified information to be passed, the systems must accommodate a degree of security higher than that normally passed over uncovered radio nets.

Combat Camera Systems: Provides equipment to Fleet Marine Force (FMF) Combat Camera Units and training commands. This is imagery acquisition/production equipment used for the collection, editing and dissemination of imagery for use by any Combat Camera customer to include DOD, Joint and Marine forces. This program standardizes equipment/systems and replaces worn out, unserviceable or obsolete acquisition/production equipment. Procurements are centrally managed and are non-developmental, Commercial/Government Off-the-Shelf (COTS/GOTS).

Command Support Equipment: Provides equipment to Fleet Marine Force (FMF) Public Affairs (PA) elements for dedicated audiovisual equipment to support national security strategy, the Department of Defense (DOD), Unified Command and Marine Corps objectives in all circumstances to include peacetime, training and contingencies. This line includes funds to provide for the initial outfitting of new construction and selected major Headquarters, U. S. Marine Corps (HQMC) I&L (Facilities) sponsored Facilities Sustainment, Restoration and Modernization (FSRM) projects. This one time first provisioning of CE, includes assets which are loose, portable, or can be detached from the structure.

Audio Visual and Telecommunication: Provides for the initial outfitting of new construction and selected major HQMC I&L (Facilities) sponsored Facilities Sustainment, Restoration and Modernization (FSRM) projects. This one time first provisioning of CE, includes assets which are loose, portable, or can be detached from the structure. Funds equipment items costing equal to or greater than \$250K.

General Purpose Tool, Sets & Kits (TS&K): Funds are used to buy tools to support all types of Marine Corps ground equipment. The program includes over 40 different types of individual mechanic or technical tool kits as well as the larger, mobile, or deployable, organizational tool sets.

Expeditionary Shelter System: EMI Maintenance Shelter is a part of the Marine corps Field Logistics System (MCFLS). This system of support equipment provides for use of standardized shelters which are easily erected, relocated, compatible with current Marine Corps transportation modes, require minimum maintenance, and will protect equipment and functions needed to support Fleet Marine Force (FMF) operations. This shelter presents the unique variation of one 20-foot EMI/EMC shelter and three 10- foot Rigid/EMC shelters being used for special purposes. Each shelter is configured to support its mission. Many of the current communication systems being fielded today require a climate controlled environment in order to perform the required corrective maintenance. These old shelters must be replaced in order to ensure continued support current and future inventory of Electronic Communication Systems.

Family of Combat Field Feeding System: Consists of those items used to store, prepare, transport & serve combat rations in a non-garrison environment while maintaining force protection through distributed operations and sanitation capabilities.

The Multi-Purpose Bayonet is the military issue bayonet carried by the Marines in theater and will attach to the M-16 and M-4 rifles. The bayonet will increase the war fighters' lethality and survivability on the battlefield by providing a combination bayonet and fighting knife.

Exhibit P-40, Budget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nom	nenclature:
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4) / 4620		ITEMS UNDER \$5M (COMM & ELEC)

FY11 Overseas Contingency Operations Request (OCO): \$11.549M

Public Affairs Equipment: Public Affairs Equipment: is to support the United States Marines Joint Force Commander by communicating the truth and factual, unclassified information about DOD activities to the United States, allied, national, international and internal audiences. PAC integrates audio, video, imagery and digital communications equipment into lightweight, modular, deployable packages. PAC allows the Marine Forces to collect, receive, process and disseminate Public Affairs information from overt, controlled, sensitive, technical and tactical operations. The information and data passed by PA detachments is often sensitive both in material contained and for the audience intended. While there will rarely be classified information to be passed, the systems must accommodate a degree of security higher than that normally passed over uncovered radio nets. These items are specialized equipment necessary to accomplish assigned missions in Afghanistan theater of operations, OEF.

Combat Camera Systems: Provides equipment to Fleet Marine Force (FMF) Combat Camera Units and training commands. This is imagery acquisition/production equipment used for the collection, editing and dissemination of imagery for use by any Combat Camera customer to include DOD, Joint and Marine forces. This program standardizes equipment/systems and replaces worn out, unserviceable or obsolete acquisition/production equipment. Procurements are centrally managed and are non-developmental, Commercial/Government Off-the-Shelf (COTS/GOTS). Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

MSIDS:MAGTF Secondary Imagery Dissemination System (MSIDS) is the only Family of Systems (FoS) that provides organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. MSIDS is comprised of components necessary to enable Marines to capture, manipulate, annotate, transmit or receive images in near real time (NRT), internally with subordinate commands that are widely separated throughout the area of operations and externally with higher adjacent commands. The MSIDS capability resides with the MAGTF G/S-2 sections, Reconnaissance Battalions, Light Armored Reconnaissance Battalions, Infantry Battalion Scout Sniper Platoons and Marine Special Operations Command. The MSIDS FoS extends the digital imaging capability to all echelons within the MEF, down to and including battalions and squadrons. Captured images are capable of being forwarded throughout the MAGTF and to higher adjacent echelons through the use Base Station Workstation/Communication Interface (BW/CI), Outstation Workstation/Communication Interface (OW/CI) or existing C4ISR architecture. Images can also be transmitted to the Tactical Exploitation Group (TEG) for more detailed processing and analysis. A recent increase of the MSIDS Video Exploitation Workstation (VEW) requirement within Infantry Battalions and Wing units, down to the squadron level, has grown from 18 to 140 in the past year. The VEW is utilized to import, manipulate, annotate still and video imagery, create intelligence products, lift still frames from video, view multi-format TV signals and provide a field briefing capability. MSIDS FoS is currently employed in every location world-wide where the Marine Corps participates in contingency operations, and has recently been employed in Iraq, Kuwait, Afghanistan, Haiti, Philippines and Horn of Africa. Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

-These items are specialized equipment necessary to accomplish assigned missions in Afghanistan theater of operations.

* All other funding for MSIDS resides under the MIP BLI 4747

Exhibit P-40a, Budget Item Justification	on for	Aggreg	jated Items	i		Date: F	ebruary 201	0
Appropriation / Budget Activity				P-1 Item No	menclature:			
Procurement, Marine Corps (1109) / 04 Communications and Elec	tronics	Equipme	ent / 4620		ITEMS UND	ER \$5M (CC	MM & ELEC	C)
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY2011	Total FY 2011
Public Affairs Equipment	A	D Q	2.468 Var	0.334 Var	0.625 Var	0.340 Var	1.073 Var	1.413 Var
Command Support Equipment	Α	D Q	3.017 Var	0.061 Var				
Audio Visual and Telecommunications	Α	D Q		4.026 Var	0.709 Var	0.856 Var	0.000 Var	0.856 Var
General Purpose Tool, Sets, & Kits (TS&K)	Α	D Q		1.132 Var	0.154 Var			
EMI Maintenance Shelter	A	D Q		0.727 Var	3.653 Var			
Family of Combat Field Feeding System	A	D Q		0.085 Var	0.033 Var			
Multi-Purpose Bayonet	Α	D Q		7 41	0.027 Var			
Civil Affairs Capability Set	A	D Q			Vai		0.278 Var	0.278 Var
Tota	1		20.834	6.365	5.201	1.196	1.351	2.547
Active Reserves)		20.834	6.365 0.000	5.201 0.000	1.196 0.000	1.351	2.547 0.000

Exhibit P-5		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / 04 Communi					P-1 Line Item	Nomenclatu	re:	Weapon Sys	tem Type:	Date:	
Cost Analysis		Procurement, Electronics Ed			Communicatio	ns and	ITEMS UND	ER \$5M (CO	MM & ELEC)			Februa	ry 2010
Weapon System		Prior Yrs		FY 09			FY 10			FY 11			
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$		
Baseline Combat Camera Program Management Support Logistics Support		15349	3950	Var	Var	2472	Var	Var	1200 1009				
Subtotal Baseline			3950			2472			2209				
FY11 OCO													
Combat Camera Hardware Refresh Software Refresh									4934 213				
MSIDS Hardware Refresh									5051	Var	Var		
Subtotal OCO									10198				
Subtotal FY11 OCO													
Total Active Reserves			3950 3950 0			2472 2472 0			12407 12407 0				

	E	xhibit P-40	, Budget Item	Justificatio	n Sheet			Date:		February 201	0	
Appropriation / Budge	et Activity/Serial	No:				P-1 Item Nome	enclature:	•				
Procurement, Ma	rine Corps (1109	9)/04 Comm	nunications and	Electronics Ed	uip / 4640			AIR OF	PERATIONS C2	SYSTEMS		
Program Elements:				Code:	Other Relate	ed Program Elen	nents:					
0206313M Tactical A	ir Control Syster	ns (Marine Co	orps)	Α								
	Prior Years*	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog.
Proc Qty												
Gross Cost	241.2	27.9	48.0	67.6	41.0	108.6	47.7	70.8	52.7	72.2	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	241.2	27.9	48.0	67.6	41.0	108.6	47.7	70.8	52.7	72.2	Cont.	Cont.
Initial Spares	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	247.7	27.9	48.0	67.6	41.0	108.6	47.7	70.8	52.7	72.2	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.

Baseline Appropriation Request:

Marine Air Command and Control (MACCS) Sustainment - Consists of various command and control units designed to provide the Aviation Combat Element (ACE) commander with the ability to monitor, supervise and influence the application of Marine aviation assets in support of Marine Air Ground Task Force MAGTF operations. The MACCS Sustainment program provides the capability to keep these Aviation Combat Elements ready, relevant and capable until their functions are replaced by the Common Aviation Command and Control System (CAC2S). The supported MACCS systems were to have been replaced by CAC2S beginning in FY09; however, the service life of MACCS has been extended to 2015. The funding procures replacement hardware to aid in the service life extension and supportability of specified MACCS systems. Provide refresh of MACCS systems one MEF at a time, one MEF per year, finishing in FY16. (AAO: Various) (TAMCN: Various)

Theater Battle Management Core System (TBMCS) - Joint mandated Air War planning tool for the generation, dissemination and execution of the Air Tasking Order (ATO). TBMCS is an Air Force lead program, which provides the automated tools necessary to manage tactical air operations, execute area air defense and airspace management in the tactical area of operation, and coordinate operations with components of other military services.

TBMCS is located at the Tactical Air Command Center (TACC), with remotes located throughout the Marine Air Ground Task Force (MAGTF). It is scalable, allowing for joint, coalition and service specific operations. It is an evolutionary acquisition program. Funds are for New Equipment training and On-Site fielding reps to support updated software and hardware fieldings, and to procure new hardware for TBMCS to leverage new technology and maintain relevance and capability.

Battlefield Target Identification Device (BTID) - Consists of an interrogator antenna, transponder antenna, RF receiver, and processor. There are three variants which include 1) Combined Interrogator/Transponder (I/T) for USMC Shooting platforms (LAV-25, M1A1 Tanks, and EFV); 2)Transponder only (T-only) for other tactical vehicles; 3) Interrogator only (I-only) for Javelin, Anti- Tank Guided Missiles (ATGMs), Target Location Designation Handoff System TLDHS, and UAVs. BTID will improve operational capabilities/effectiveness. It will discriminate between friendly and potential hostile platforms, through battlefield obscurants at ranges in excess of 6 KM in less than 1 second. It also decreases fratricide incidents, increases the range at which targets may be engaged without fear of misidentification, and enhances Situational Awareness (SA) by providing redundant Blue Force Tracking and alternative means of tactical communications.

Composite Tracking Network (CTN) - The 12 April 1995 Mission Need Statement (MNS) No. AAS 48 for the Common Aviation Command and Control System (CAC2S) established the Marine Corps' need to upgrade its existing air defense architecture with capabilities to support improved situational awareness (SA) and advanced engagement concepts. The Composite Tracking Network (CTN) Program was initiated to address this capability. The CTN system (AN/MSQ-143) is an integration effort consisting of an AN/USG-4A and other Marine-unique components are Government Furnished Equipment (GFE) with the exception of the shelter and mast. The Marine Corps unique components include: Vehicle - M1152A-1 (GFE Marine Corps Systems Command (MCSC), Trailer - M102 LTT-MCC (GFE MCSC), 1 OKW Generator - MEP 803 (GFE MCSC), Tactical Radio - AN/MRC103 (GFE MCSC), Global Positioning System - DAGR (GFE MCSC), Environmental Control Unit - BOO03 (GFE MCSC), Shelter - S788 (commercial off-the-shelf (COTS) NSWC Crane), and Antenna Mast - TEAMS EXL 195/26-5.4 (COTS NSWC Crane).

The CTN system will interface with the CAC2S and the AN/TPS-59 radar to provide the Marine Air-Ground Task Force (MAGTF) and Joint Task Force Commanders a ground-based sensor netting solution that correlates sensor measurement data (target velocity and position) from local and remote radars that interface in the CEC network. This data will effectively increase Situational Awareness by providing accurate, composite, real-time surveillance tracks. Future interfaces with CTN will include the Ground/Air Task Oriented Radar (GATOR). In FY 10, the Program Office will produce 9 systems and procure Crypto Modernization as part of the AN/USG-4A Engineering Change Proposal.

Exhibit P-40, Budget Item Justification Sheet		Date:
		February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equip / 4640		AIR OPERATIONS C2 SYSTEMS

Remote Video Viewing Terminal (RVVT) - Remote Video Viewing Terminal (RVVT) - Provides the warfighter with video connectivity to multiple types of aerial platforms (Pioneer, Dragon Eye, Raven B, Shadow, Predator, Fire Scout, and Litening Pod on P-3, AV8-B, and F/A-18). Data is displayed to Regimental Combat Teams and Forward Air Controller operators who coordinate with higher headquarters for fires. This is a New Start for FY10.

Program Office is pursuing an AAP designation with MS B in FY10.

The Common Aviation Command and Control System (CAC2S) is a coordinated modernization effort to replace the existing aviation command and control equipment of the Marine Air Command and Control System (MACCS) and to provide the Aviation Combat Element with the necessary hardware, software, equipment, and facilities to effectively command, control, and coordinate aviation operations. The CAC2S system will accomplish the MACCS missions with a suite of operationally scalable modules to support the Marine Air Ground Task Force (MAGTF), Joint, and Coalition Forces. The CAC2S integrates the functions of aviation command and control proces. The CAC2S integrates the functions of aviation command and control proces. The CAC2S integrates the functions of aviation command and control systems will support the core competencies of all Marine Corps warfighting concepts. The CAC2S, in conjunction with MACCS organic sensors and weapons systems, supports the tenets of Expeditionary Maneuver Warfare and fosters joint interoperability. CAC2S Increment I will replace legacy aviation command and control systems in the following Marine aviation agencies: Direct Air Support Center (DASC), Tactical Air Command Center (TACC), and Tactical Air Operations Center (TAOC). Future increments encompassing Marine Air Traffic Control Detachment (MATCD), Low Altitude Air Defense Battalion (LAAD BN), Unmanned Aerial Systems (UAS), and airborne node capabilities are anticipated but are not yet baselined. CAC2S consists of four variants. Variant 1 (V1) will consist of 1 PDS Capset III, 1 SDS, and 2 CS/MRQ-12's. Total V1 quantity is 4. Variant 2 (V2) will consist of 1 PDS Capset III, 1 SDS, and 2 CS/MRQ-12's. Total V4 quantity is 10 (AAO: 50) (TAMCN'S: N/A).

TIER I (GROUP 1) UAS - The TIER I (Group1) UAS program procures a capability for unmanned aircraft systems (UAS) to provide the company/detachment level with airborne reconnaissance to aid in detecting, identifying and engaging or avoiding enemy units. The UAS air vehicle autonomously gathers and transmits imagery of the tactical situation in near-real time at a range of up to ten kilometers. The material solution for the GROUP 1 requirement is the Raven B UAS. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. The air vehicle flies at an altitude of 300-500 feet above ground level (AGL) at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. Raven B's interchangeable payloads, autopilot and propulsion system are also commercial-off-the shelf (COTS) subsystems. The Ground Control Station (GCS) uses a rugged hand controller connected to a communication control box. A Raven B system consists of three Raven B air vehicles; two GCS; one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit; one Field Repair Kit (FRK). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. The FRK contains consumable items used during operations and maintenance. Raven B is a joint US ARMY/USSOCOM Program. Funds will be allocated to replace the previously fielded SURSS, Block 0 which are reaching the limit of operational life and provided initial issue spares. In FY10, the Program Office expects to procure the balance of SURSS Block I (Raven B) systems to it's current AAO and commence defielding of all DE block 0 systems. Tier I Group1 UAS also includes the DragonEye hand-launch small unit UAS platform.

FY11 Overseas Contingency Operations Request (OCO): \$41.031M

BTID - Equip 22,500 Marines with personnel Combat ID gear. This requirement is based on the I MEF Urgent Universal Need Statement dated April 2005 and is a continuing requirement based on OEF (Afghanistan) and OIF operations. These items are specialized equipment necessary to accomplish assigned missions in OEF/OIF theaters of operation.

MACCS Sustainment - Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

BLOS - Procures additional Gateway devices to be aligned to the DASC (AAO=8). BLOS Gateway devices to provide Command and Control (C2) Situational Awareness (SA) to the Direct Air Support Center (DASC). Will fund the 8 required for the DASC and complete the AAO. The current DASC allows voice-only terminal control of aircraft in close air support missions. The gateway allows controllers to "see" the battlefield = better planning of ingress and egress routes, locations of friendly forces, and positive ID of targets, thus significantly reducing the potential for air-to-ground fratricide incidents. Provides ability to operate in austere environments and echelon control. These items are specialized equipment necessary to accomplish assigned missions in OEF/OIF theaters of operation.

CDLS - Additional CDLS suites allow Aviation Combat Element (ACE) and Marine Tactical Command Squadron (MTACS) Commanders deployed in OEF to maintain Air Command nodes at multiple locations. This is critical in OEF due to the extreme geographic features of that theater, which inhibit or prevent line-of-sight, and often satellite, communications. Multiple CDLS nodes can be strategically employed to act as relay, gap-filler, and forwarding Command agencies to ensure the ACE Battlestaff has complete tactical situational awareness, the information streams to support decision making, and the communications infrastructure to Command and supervise air combat operations. These items are specialized equipment necessary to accomplish assigned missions in OEF/OIF theaters of operation.

MERWS - Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan. The MERWS is a hard shelter used by the TACC to house its operational facility. Primary facility for the TACC suite of servers, workstations, tactical networks, personnel, and communications devices. It provides environmental protection, lighting, power distribution, and workspace for the TACC's equipment, personnel and functional cells.

MIDS - A0099 MIDS terminals to partially replace existing AAO quantities of A0082 Joint Tactical Information Distribution Terminal Systems (JTIDS) assets. The JTIDS is obsolete and not supportable. MIDS is the replacement terminal utilized across DoD and NATO services for access to Link 16. Link 16 is the primary method used to exchange data link information, commands, and engagement data supporting situational awareness and command and control activities. These items are specialized equipment necessary to accomplish assigned missions in OEF/OIF theaters of operation.

Radios - MACCS is the sole user of this radio variant. Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

TBMCS - Funds are for New Equipment training and to procure new hardware for TBMCS to leverage new technology and maintain relevance and capability. These items are specialized equipment necessary to accomplish assigned missions in OEF/OIF theaters of operation.

Exhibit P-40a, Budget	Item .	Justificatio	n for Ag	gregated It	ems		Febr	uary 2010			
Appropriation / Budget Activity Procurement, Marine Corps (1109)/04 Communi	cations	and Electro	nics Equip)/4640	P-1 Item Nome	nclature:	AIR OPERA	TIONS C2	SYSTEM	1S	
Procurement Items	Code	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011				
Tier I (Raven B) w/out (DDLS)	Α	0.000	0.000	1.340	0.000	0.000	0.000				
	Q										
Tier I (Raven B) with Distributed Data Link (DDLS)	Α	0.000	0.000	1.681	0.000	0.000	0.000				
	Q										
Tier 1 (Dragon Eye)	A	0.000	0.804	0.000	0.000	0.000	0.000				
	Q										
Tota		0.000	0.804	3.021	0.000	0.000	0.000				
Active	-	0.000	0.804	3.021	0.000	0.000	0.000				
Reserve		0.000	0.000	0.000	0.000	0.000	0.000				
	 										

Exhibit P-5 Cost Analysis		Appropriation/ Be Procurement, Communic	-	os (1109)/04		m Nomencl	ature:	Weapon Sy	stem Type:		ry 2010
Oost Allalysis			uipment/464		7 0. 2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0.20			. 00.44	., 20.0
Weenen Chatem	5	Prior Yrs		FY09			FY10	ı		FY11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline MACCS SUSTAINMENT (Air Ops C2 Sys/Cmoss) CDLS COTS Refresh						2855	VAR	VAR			
COTS Components Refresh JTIDS/JRE Components Refresh MACCS Components Refresh Fiber Cable Components Refresh			560 270 224 60	VAR VAR VAR VAR	VAR VAR	284 436	VAR	VAR	250	VAR	VAR
CEOss Contractor Support TACC Sustainment TAOC Sustainment		480 1303				306 394		VAR VAR	242	VAR	VAR
DASC Sustainment		600				220	VAR	VAR	220	VAR	VAR
MACCS ISEA Comms Data Link System Sustainment ADCP Sustainment/Refurbishment CIS/CDS/DASCAS Sustainment		600 137	209 734	VAR VAR	VAR	389	VAR	VAR VAR		VAR	VAR
****ADCP/MERWS/DASCAS		821 1370	417	VAR	VAR	402 260				VAR	VAR
Subtotal Baseline		5311	2474			6422			1226		
FY11 OCO MACCS SUSTAINMENT (Air Ops C2 Sys/Cmoss) JRE-Palm Procurement CDLS Production MERWS Procurment Ground to Air Radio Procurement MIDS Terminal Procurement Wireless Point to Point TAOM HF Radios TAOC Refresh TAOC Life Cycle Support Subtotal FY11 OCO									964 6000 2000 350 3500 1700 1600 16547 3000	VAR VAR VAR VAR	VAR VAR VAR VAR VAR VAR VAR
SubTotal Active Reserve		5311 5311 0	2474 2474 0			6422 6422 0			36887 36887 0		

5.1335	Appropriation	on/ Budg	get Activity/Se	erial No:		P-1 Line Ite	m Nomencla	iture:	Weapon Sy	stem Type:	Date:	
Exhibit P-5 Cost Analysis			ne Corps (110 nd Electronic	09)/04 s Equipment/4	640		PERATIONS SYSTEMS	C2			Februar	ry 2010
			Prior Yrs		FY09			FY10			FY11	
Weapon System Cost Elements		ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>												
TBMCS New Equipment Training			10330	1805			1428			1488		
OnSite Fielding Reps			4791	895			1420			1400		
Integrated Logistic Support			5294	1189			750			728		
TBMCS Systems			3329				1277					
CAC2S Subsystems												
Sensor Data Subsystem (SDS)												
PDS Capset III Subsystem										19755	9	2195000
ECP KITS												
PDS Capset III ECP Kit							1300		VAR		VAR	VAR
CS/MRQ-12 ECP Kit							728	VAR	VAR	7497	VAR	VAR
Contractor Logistics Support							740			1,209		
Initial Spares							86			986		
Production testing COTS software							63			1,171		
Engineering Change Orders							51			1,423 75		
Net Training/Data							10			542		
Production support							1108			1,507		
Sub	otal Baseline		23744	3889			7541			44891		
FV44 000												
FY11 OCO TBMCS												
New Equipment Training										500		
TBMCS Systems										3270		
Suhta	tal FY11 OCO									3770		
Subto	iai F I I I UCU									3110		
	TOTAL		23744	3889			7541			48661		
	Active		23744	3889			7541			48661		
	Reserves		0	0			0			0		

	Approp	oriation/ Budget	Activity/Serial	No:	P-1 Line Item	Nomenclature:		Weapon Sys	tem Type:	Date	
Exhibit P-5 Cost Analysis		ement, Marine (unications and I			AIR OPERA	TIONS C2 SYS	TEMS			Feb	ruary 2010
W 0 /		Prior Yrs		FY09			FY10			FY11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline Battlefield Target Identification Device End-Item Procurement Low Rate Initial Production B-Kit LRIPs A-Kit LRIPs Kit Installation Other Direct costs Investment Program Office BTIS First Article Test BTIS First Destination Transportation (FDT) BTIS Support Equipment BTIS Other Composite Tracking Network (CTN)		921 4717 629 1 1095 1152	3104 1109 973 817 231 1	VAR VAR VAR VAR VAR	VAR VAR VAR VAR VAR	15570	a	1730			
CTN Platform Components (Production) Program Management Support Other Production Support CEC ILS GFE Components Crypto Signal Data Processor "S" Engineering Change Proposals (ECPs)		7512 1546 169 1138	11832 1277 257 1101	6 VAR VAR VAR	1972000 VAR VAR VAR	15570 4079 160 1957 2985	9 VAR VAR VAR 15	1730 VAR VAR VAR 199	1202 2604 365 11637	VAR	
Remote Viewing Video Terminal - Tactical Air Command Platform Suite - Program Management Support/ILS						4805 1500	VAR VAR	VAR VAR	4643 1000		
Subtotoal Baseline		18880	20702			31056			21451		
FY11 OCO Battlefield Target Identification Device Button IR Reflective Squares 2" x 2" (GloTape) 1" IR Reflective sq for helmets (SCHIMS) 2' x 2' Thermal ID Panel IR Beacon IR Reflective Armband									817 199 65 49 471		
Subtotoal FY11 OCO									1600		
Total Active Reserve		18880 18880 0	20702 20702 0			31056 31056 0			23051 23051 0		

Appropriation / Budget Activity/Seri	ial No: / 04 Communications and Electronics	Weapon Sy	rstem Type:		P-1 Line It A		nclature: ATIONS C2 SY	STEMS	(MACCS	;)
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFF Issue Date
FY09 CTN Platform Components	Various	TBD	MCSC, Quantico, VA	Dec-08	Dec-09	6	1972000	Y	N/A	N/A
FY10 CTN Platform Components Crypto Signal Data Processor 'S"	Various TBD	TBD TBD	MCSC, Quantico, VA NAVSEA, D.C.		Dec-10 Dec-09	9 15	1730 199		N/A N/A	N/A N/A
FY11 PDS Capset III Subsystem	General Dynamics Scottsdale, AZ	FFP	MCSC, Quantico, VA	Feb-11	Jul-11	9	2195000	N	N/A	N/A

EXHIBIT P-21,	PRODUCTION S	CHEE	ULE																	Date	e:			F	- ebru	uary 2	2010				
	e/CC/BA/BSA/Item Co ine Corps (1109) / 04 (nent/ 4640			ons an	nd		Wea	apon	Syste	em				P-1	Iten	n Nor	mend	clatur	e:	Air	Ope	ratio	ns C2			·					
							Р	ROD	UC	ΓΙΟΝ	RA	ΤE			PR	ROCI	URE	MEI	NT L	EAD	TIM	ES									
ITEM	Manufacturer's NAME/L	OCATIO	N				М	SR	EC	ON	М	AX		T Prid			LT Af Oct 1		N	Initial /Ifg PL			Reorde Ifg PL			TO	TAL		Uni	t of	
CTN	Various Manufactu	urers						1		2		4					2			12			0			1	4			Ε	
PDS Capset III	General Dynamics	s/Scotts	sdale	, AZ				1		3		7					1			3							3			E	
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	A Y	N N	J L	A U G	S E P	N C E
CTN Platform Co	omponents	09	MC	6		6			Α												2	2	2								0
CTN Platform Co	<u> </u>	10	МС	9		9															Α								1		9
CTN Crypto Sigr	nal Processor	10	МС	15		15			Α												2	2	2	2	2	2	2	1	lacksquare		0
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ITEM	F S Q T C Y						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
CTN Platform Co	atform Components 10 MC 9								2	2	2	2	1													Ħ			匚		0
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PDS Capset III		11	МС	9		9					Α					3	3	3								ᆂ			二		0
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	Exhibit	P-40, Bud	get Item Ju	stification S	Sheet			Date:		February 2	2010	
Appropriation / Budget Activity	y/Serial No:					P-1 Item Nome	nclature:					
Procurement, Marine Corps (1	1109) / 04 Communica	itions and Elec	tronics Equipm	nent / 4650					RADAR SYST	EMS		
Program Elements: 0206211M Tactical Air C	Control Systems (Marin	ne Corps)	Code: A		Other Related	Program Eleme	nts:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total Prog.
Proc Qty												
Gross Cost	185.2	42.4	10.8	0.9	5.5	6.4	12.0	50.1	31.2	32.2	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	185.2	42.4	10.8	0.9	5.5	6.4	12.0	50.1	31.2	32.2	Cont.	Cont.
Initial Spares	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont
Total Proc Cost	185.2	42.4	10.8	0.9	5.5	6.4	12.0	50.1	31.2	32.2	Cont.	Cont.
Flyaway U/C											Cont.	Cont.
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.

Base Appropriation Request:

Ground/Air Task Oriented Radar (G/ATOR) (formerly known as the Multi-Role Radar System (MRRS) - G/ATOR is an expeditionary, 3-dimensional, high-mobility multi-purpose wheeled vehicle, short/meduim range multi-role radar designed to detect cruise missiles, air breathing targets, rockets, mortars, and artillery. MRRS and GWLR (Ground Weapons Locating Radar) merged into a single requirement/capablity (G/ATOR) and will replace an aging fleet of single mission legacy radar systems. G/ATOR will support air defense, air surveillance, counter-battery/target acquisition, aviation radar tactical enhancements and the final evolution will also support the Air Traffic Control mission.

Short/Medium Range Air Defense Radars - The AN/TPS-63B is a two-dimensional, medium-range, medium altitude, transportable, radar system which is employed as a tactical gap-filler or as an early warning system for early deployment into the operational area. It has a 360-degree air surveillance capability at a range of 160 miles and complements the co-employed AN/TPS-59 (V) 3 three dimensional, long-range, air surveillance radar system. The AN/TPS-63B, like the AN/TPS-59 (V) 3, is employed by the Marine Air Control Squadron (MACS) as its Tactical Air Operations Center (TAOC) in support of air surveillance and air control mission objectives. The FY10 funding profile includes the purchase of various ancillary equipment to include upgrade kits for Receiver Path/Frequency Generator (RF) Suite 1.

Family of Target Acquisition Systems (FTAS)/Ground Weapons Locating Radar (GWLR) - The FTAS provides the MAGTF the capability to locate, identify and attack enemy indirect fire weapons systems and observe and direct friendly artillery fire. The FTAS consists of the AN/TPQ-46 Fire finder radar, the AN/TPQ-48 Lightweight Counter Mortar Radar and the Target Processing Set. The FTAS is critical in the execution of counter fire and the integration of target acquisition information enabling attack by MAGTF assets. The FTAS also provides artillery firing units the ability to conduct artillery registration and other friendly fire missions. The FTAS encompasses the equipment required to support target acquisition within the target acquisition platoon and is resident in the headquarters battery of each artillery regiment. The FY10 funding profile includes the purchase of upgrade kits and contractor support services for installation.

AN/TPS-59 Long Range Radar Sustainment: The AN/TPS-59 radar provides three-dimensional long range surveillance and detection against air-breathing targets and tactical ballistic missiles. It provides launch/impact point and cueing information to other theater missile defense systems. The AN/TPS-59 Program is currently managing reoccurring sustainment activities, while simulatenously implementing a Three Increment strategy of tech refresh to address obsolete/Diminishing Manufacturing Sources (DMS) issues. The sustainment strategy combines numerous Engineering Change Proposals, which will culminate in an Operational Assessment and Operational Test prior to ECP modkit development and installation. The radar has been continuously deployed in support of OIF/OEF decreasing material readiness.

FY11 OCO funding is required to provide technical/logistics support to maintain readiness and fielding of a modified Data Processing Shelter. Funding also supports ongoing engineering changes required to address diminishing manufacturing sources and obsolescence issues. The TPS-59, the only Long Range Radar in the Marine Corps, was fielded in FY84 with an electronics upgrade fielded in FY98 and has numerous obsolescence issues. Risks decreased operational availability of AN/TPS-59; currently employed in overseas contingency operations. Cannot maintain logistics support to upgraded Data Processor Shelters fielded in FY-10 and delays fielding of 5 shelters until FY-12

Exhibit P-40a, Budget Item Justific	ation fo	r Aggre	gated Items				Date:	February 201	0	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipm	ent / 465	50			P-1 Item Non	nenclature:		SYSTEMS		
Procurement Items	Code	UOM	Prior Years	FY 2009	FY2010	Base FY2011	OCO FY2011	Total FY2011		
Short/Medium Range Air Defense Radar Ancillary Equipment										
Compressor/Dehydrator Update Kits	Α		0.428	0.419	0.000	0.000	0.000	0.000		
OEM System ECP Upgrads/Refresh/RF Suite	Α		1.304	0.000	0.700	0.694	0.000	0.694		
Totals			1.732	0.419	0.700	0.694	0.000	0.694		
Active			1.732	0.419	0.700	0.694	0.000	0.694		
Reserves			0.000	0.000	0.000	0.000	0.000	0.000		

Exhibit P-5		Appropriation/ E	-	•	Communication	ons and Electro		P-1 Line Item N	lomenclature:	c	Weapon System	Туре:	Date:	2040
Cost Analysis	E	Equipment / 46	50					KA	DAK SYSTEM				Februa	ary 2010
Weapon System Cost Elements	ID _	Prior Yrs TotalCost	TotalCost	FY 09		TotalCost	FY 10		TotalCost	FY 11				
Weapon System Cost Elements	CD	\$000	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$			
<u>Baseline</u>	T													
GWLR/FTAS (4650)	A					40-								
Upgrade Kits and Installation CEOSS			633 600	VAR VAR	VAR VAR	487	VAR	VAR VAR	400	\/AD	\/A.D.			
Radar Processor LRIP (5) refresh		1257	600	VAR	VAR	2025	VAR	VAR	166	VAR	VAR			
Re-Hosted Radar Processor refresh		4795												
Target Processing Set		5000	8000	46	173916									
Q-46A SL3 Radar ancillary equipment		6783												
Integration of systems		110	910	VAR	VAR									
AAO Increase Q-46A Radar Set, 202k		97669												
IIP Plus up for AAO Increase	1													
FY10 GWOT FTAS ECP's/Mods Antenna Transceiver Groups (ATGs)														
LCMR			7520	VAR	VAR	3325	VAR	VAR						
AN/TPQ-48 LCMR refresh		6500	7 320	VAIX	VAIX	3323	۷۸۱۲	VAIX						
		5555												
AN/TPS-59 (4650)	Α													
AN/TPS-59 Sustainment			12000											
Diminishing Manufact. Sources Issues - NO END		12215	12230			4193								
Control Shelter Refresh Control Shelter Refresh		29606												
Interrogator Mod Kits - NO END ITEMS		19500				92								
interrogator Mod Mits - NO END ITEMO						32								
GROUND/AIR TASK ORIENTED RADAR	Α													
G/ATOR Systems														
Less PY Long Lead														
CY Long Lead Items			56	VAR	VAR									
(T/R Modules, cables, harnesses, connectors)														
Subtotal Baseline	1	183435	41949			10122			166					
Castotal Baseline	1	100-700	71343			10122			100					
FY11 OCO														
AN/TPS-59	Α													
Data Processing Group									2546	VAR	VAR			
Hardware Subtatal OCO									2947	VAR	VAR			
Subtotal OCO									5493					
TOTAL		183435	41949			10122			5659					
ACTIVE		183435	41949			10122			5659					
RESERVE		0	0			0			0					
	1													

	Exhibit P-5a, Budget Procurem	nent Histo	ry and Planning					Date:	ebruary 2	2010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 04 Communic	cations and Electronics Equipment / 4650	Weapon Sy	stem Type:		P-1 Line I	tem No	menclature: RADAR SYS	•	obracity :	
WBS Cost Elements:	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Ground Weapons Locating Radar										
<u>LCMR</u>										
FY09 AN/TPQ-48 V2+ LCMR Kits	FT MONMOUTH/CECOM	FFP	MARCORSYSCOM	Jul-10	Feb-10	46	173916	Y	N/A	N/A
REMARKS:		!	 	!		!		!		

	EXI	HIBI	T P-:	21, P	ROI	DUCTIO	ON S	SCH	EDI	JLE										Date	:				Febru	uary 2	010				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) / 0 Equiipment / 4650		ation	ıs and	Elect	ronics		Wea	apon	Syste	em:				P-1	Item	Nom	encl	ature	e:		R/	λDA	R S	/STE	MS						
ITEM	Manufad	cture	r's N	AME /	LOC	ATION		PRO SR		CON		AX		T Prio	or to	AL	CUR T Af Oct 1	ter		EADT nitial g PL1		F	Reord //fg P			то	TAL		Unit Mea	of	
AN/TPQ-48 V2+ LCMR KITS	RAYTH	HEOI	N /FL	S Q D E				2		2				9			7			32			32				39		Е		В
	F S Q F V T E C Y L									Fis	scal Y	ear 0		Caler	ndar `	⁄ear	09							risca	l Year Calen		ear 10)			A L
ITEM	' C Y L			B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E		
AN/TPQ-48 V2+ LCMR KITS	' C Y L					46																						Α			46
										Fis	scal Y	ear 1		Caler	ndar `	⁄ear	11							Fisca	l Year Calen		ear 12	2			B A L
ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	N C E
AN/TPQ-48 V2+ LCMR KITS		09	МС	46		46					8	8	8	8	8	6															0
REMARKS:																															
NEWANIO.																															

	Exhibi	t P-40, Bud	lget Item J	ustificatio	n Sheet			Date:		February 20)10	
Appropriation / Budget	Activity/Serial No	D:				P-1 Item Nor	nenclature:					
Procurement, Marine C	orps (1109) / 04	Communication	ons and Elect	ronics Equipr	ment / 4733			FIRI	E SUPPORT :	SYSTEM		
Program Elements: 0206	3211M Divisions	(Marine)		Code: A	Other Relate	d Program Ele	ements:					
	Prior Year	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total
Proc Qty												
Gross Cost	289.7	5.2	3.1	3.9	4.7	8.6	5.1	8.3	14.7	18.2	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	289.7	5.2	3.1	3.9	4.7	8.6	5.1	8.3	14.7	18.2	Cont.	Cont.
Initial Spares	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	291.9	5.2	3.1	3.9	0.0	8.6	5.1	8.3	14.7	18.2	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.

Common Laser Range Finder - CLRF - The CLRF Pre-Planned Product Improvement (P3I) will provide a lightweight, man portable, True North Azimuth Determination System (TNADS) capable of interfacing with the Common Laser Range Finder (CLRF) and the Defense Advanced Global Positioning System (GPS) Receiver (DAGR). P3I will equip operating forces with a technological capability to reduce the target location error to allow more accurate target locations. If not approved, the Marine Corps will continue to have a deficiency in target location error (TLE) at the dismounted level.

Muzzle Velocity System: The M-94 provides an accurate muzzle velocity reading for a projectile fired from a M-198 or M-777 155mm howitzer and to adjust the gun after several rounds have been fired. The M-94 provides advanced muzzle velocity and gun management functions which enable the operator to store and retrieve adjusted muzzle velocities for the rounds fired for all gun type/projectile/propellant combinations in use. Without this additional rounds will be required to adjust the gun.

Modeled Meteorological Information Manager (MIMM) provides the ability to derive highly accurate meteorological data through the use of Numerical Weather Prediction (i.e. meteorological models). MMIM will provide this meteorological information to correct artillery, mortar, and rocket firing data, as well as corrections for target locating radars such as the AN/TPQ-46A. MIMM is the replacement system for the Meteorological Station Group (MSG) under TM2.

Sight, Grenade Launcher AN/PSQ18A (E1779) - The AN/PSQ-18A, Model 1800, is an enhanced aiming device designed to enable the Marine to rapidly and precisely fire the M203 in daylight, low-light, and night conditions. The AN/PSQ-18A GLDNSM is being procured via the U.S. Special Operations Command (USSOCOM) to fulfill the requirements of the Marine Corps' M203 Enhanced Sighting Device (ESD) program. Fire Support Mods (Sustainment): Funding will provide upgrades to electronic suites/product improvements for Tactical Meteorological Manager (TM2). This will also support the procurement of the Long Range Thermal Imager (LRTI) and Laser Spot Imager. The LRTI LSI will provide a night capability to the LTD and CLRF systems. Additionally, various Fire Support Equipment is required by the Table of Equipment to support the stand-up of new units within the Marine Corps to meet the 202k end-strength. The AAOs and TAMCNs for the funding contained under the sustainment line is various due to the large number of items procured.

Ground Laser Target Designator II (GLTD II): GLTD II is an interim solution to Laser Target Designation. All money for Laser Target Designation will procure the Portable Laser Designated Rangefinder (PLDR), the long term LTD hardware solution. Contract award for the remaining 81 GLTD II units was Nov, 2007 with delivery beginning in Sep, 2008.

PEI Procurement: Provides the thermal sight capability for the Common Laser Range Finder (CLRF) night targeting requirements. It allows the user to locate targets out to 5k at night. Various Fire Support Equipment required by the Table of Equipment to support the stand-up of new units within the Marine Corps to meet the 202k end-strength.

FY 11 - Total includes Overseas Contingency Operation Request (OCO) of: \$4.71M

OCO funding is required to replace the current PGS Survey System and will allow the Marines to provide timely and accurate position and orientation data for artillery and fire support assets in OEF. This GPS survey capability will enable artillery surveyors to accurately, rapidly, and safely extend survey control over great distances in rugged terrain and thereby mitigate the likelihood of fratricide and collateral damage.

Exhibit P-40a, Budget It	em Jus	tificatio	n for Aggre	gated Items	5		Date:	ebruary 201	0	
Appropriation / Budget Activity					P-1 Item Nome	enclature:		,		
Procurement, Marine Corps (1109) / 04 Communications and	d Electron	ic Equipm	ent / 4733		FIRE SUPPORT SYSTEM					
Procurement Items	Code	e UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
Muzzle Velocity System	Α	D	2.1		0.5					
		Q	VAR		7					
Fire Support Mods (Sustainment)	Α	D	32.6	5.2	1.7	2.4	4.7	7.2		
		Q	VAR	VAR	VAR	VAR	VAR	VAR		
Modeled Meterological Information Manager (MIMM)	A	D			0.7	1.5	0.0	1.5		
<u> </u>		Q			3	7	0	7		
Sight, Grenade Launcher AN/PSQ18A (TAMNC E1779)	Α	D			0.2					
		Q			239					
`										
ТО	TAL		34.7	5.2	3.1	3.9	4.7	8.6		
Ac	tive		27.8	5.2	3.1	0.0	0.0	0.0		
Rese	erve		6.9	0.0	0.0	0.0	0.0	0.0		

	Exhibi	t P-40, Bu	dget Item J	lustificatio	n Sheet				Date: February 2010				
Appropriation / Budget Activity/Se	rial No:						P-1 Item Non	nenclature:					
Procurement, Marine Corps (1109	t / 4747				li	ntelligence Sup	oport Equipm	ent					
Program Elements:		Code:		Other Related	Program Elen	nents:							
0206625M USMC Intelligence/Electronic Warfare Systems (MIP)				Α									
	Prior Years	FY2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog.	
Proc Qty													
Gross Cost	705.0	148.5	85.0	92.4	82.9	175.3	57.9	51.0	66.0	65.6	Cont.	Cont.	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	705.0	148.5	85.0	92.4	82.9	175.3	57.9	51.0	66.0	65.6	Cont.	Cont.	
Initial Spares	18.2	0.0	0.1	0.2	0.0	0.2	0.5	0.5	0.6	0.6	Cont.	Cont.	
Total Proc Cost	723.2	148.5	85.2	92.5	82.9	175.4	58.4	51.5	66.5	66.1	Cont.	Cont.	
Flyaway U/C													
Wpn Sys Proc U/C													
Reserves						0.0							

Baseline Appropriation Request: \$92.377M

TIER I (Group1) Unas - The TIER I (Group1) Unmanned Aircraft Systems (UAS) program procures a capability to provide the company/detachment level with airborne reconnaissance to aid in detecting, identifying and engaging or avoiding enemy units. The UAS air vehicle autonomously gathers and transmits imagery of the tactical situation in near-real time at a range of up to ten kilometers. The material solution for the GROUP 1 requirement is the Raven B UAS. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. The air vehicle flies at an altitude of 300-500 feet above ground level (AGL) at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. Raven B's interchangeable payloads, autopilot and propulsion system are also commercial-off-the shelf (COTS) subsystems. The Ground Control Station (GCS) uses a rugged hand controller connected to a communication control box. A Raven B system consists of three Raven B air vehicles; two GCS; one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit; and one Field Repair Kit (FRK). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. The FRK contains consumable items used during operations and maintenance. Raven B is a joint US ARMY/USSOCOM Program. Funds will be allocated to replace the previously fielded SURSS, Block 0 which are reaching the limit of operational life and provided initial issue spares. FY09 funding resides in BLI 4747. Funding in FY10 and beyond resides in BLI 4757. In FY10, the Program Office expects to procure the balance of SURSS Block I (Raven B) systems to it's current approved acquisition objective (AAO) and commence defielding of all SURSS block 0 systems. In FY11 and beyond, the current funding will sustain GROUP 1 to the authorized AAO.

Micro-Terrain Surveillance System (MTSS) is a ground based, real-time full motion video surveillance capability that supports the functional areas of intelligence, battle space awareness, force protection, and force application. MTSS provides the Marine company-level units with a ground based unattended, remote, and continuous video monitoring capability to observe activity along key roadways, intersections, choke points and other areas of interest. The system will consist of a ground based unattended sensor, C2 & monitoring stations and supporting communications assets. The system blends into the indigenous environment, is unmanned, is unrestricted by weather and fatigue, and delivers real-time data to a monitoring station via a RF path. The monitoring stations has the capability to store, retrieve and forward any date received to higher and adjacent commands via organic communications systems.

Trojan Spirit Lite (TROJAN) is an Super High Frequency (SHF) multi-band satellite communications terminal, available in either High Mobility Multipurpose Wheeled Vehicle (HMMWV)-mounted or transit case configuration, that provides dedicated tactical communications capability at the TS/SCI and Secret Collateral levels to USMC intelligence units. TROJAN SPIRIT terminals provide connectivity into JWICSs, National Security Agency Network (NSANET) and Secret Internet Protocol Router Network (SIPRNET) via the TROJAN Network Control Center. FY 2011 OCO will procure the SWAN D v3 and installation support for increase tactical communication capabilities to the intelligence units support OEF.

Radio Battalion Moderization and Concept Exploration (RadBn Mods) is a unique program which seeks to acquire and deliver "niche" capabilities to the Marine SIGINT Radio Battalions for evaluation. The program has been effective in rapidly providing solutions ranging from HMMWV mounted shelters to software controlled receivers capable of exploiting relevant target communication systems.

Exhibit P-40, Budget Item Justification She	et	Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	1 cordary 2010
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747		Intelligence Support Equipment

Technical Control and Analysis Center (TCAC) - consisting of the AN/UYQ-83 TCAC Remote Analysis Workstation (RAWS), AN/MYQ-9 TCAC Transportable Workstation, Multi-Level Security (MLS) and One Roof system is the focal point of Radio Battalions (RADBN), Marine Corps Special Operations Command (MARSOC), and Fixed Wing Marine Electronic Attack Squadron (VMAQ) Signals Intelligence (SIGINT) operations. The TCAC automatically collects, stores, retrieves and plays back digital voice signals; fuses and analyzes SIGINT data from tactical, theater and national collectors and databases for sissemination to tactical commanders. TCAC provides SIGINT anlysis applications to deployable MAGTF units capable of directing and managing the techincal and operational functions of other RADBN SIGINT/EW assets. The TCAC provides termination of national, theater, and tactical data networks for data exchange with the tactical SIGINT/EW assets, the Intelligence Analysis System (IAS), national databases, and provided USMC tactical SIGINT collection and analytical data into the Reat-Time Regional Gateway (RT-RG) and Distributed Common Ground System (DCGS). The system provides ground processing of Electronic Warfare (EW) information, including Electronic Warfare Support (EWS) and Electronic Attack (EA) data collected by the RADBN and VMAQ EA-6B aircraft. The system is capable of correlating, fusing and evaluating radar emitter identification and location data from the EA-6B with other National and theater sources. OCO funding (PMC) provides audio processing software to allow TCAC's new imbedded Tactical OneRoof capability the ability to provide key word processing, language ID, and voice ID received from USMC POR sensors. The software will be incorporated into the existing TCAC baseline and provided in an annual release directly fielded to OEF/OIF and OCO units.

Distributed Common Ground/Surface System (DCGS) in compliance with the Department of Defense DCGS Family of Systems concept, is a Service-level effort to migrate select USMC Intelligence, Surveillance and Reconnaissance (ISR) processing and exploitation capabilities into a single, integrated net-centric baseline consisting of functional capability sets that support Marine intelligence analysts across the Marine Air-Ground Task Force (MAGTF) by making organic ISR data more visible, accessible, and understandable. The Distributed Common Ground System-Marine Corps (DCGS-MC) concept originated with the DCGS Mission Area Initial Capabilities Document (MA ICD) Joint Requirements Oversite Council Memorandum (JROCM 001-03) dated 6 Jan 03 which established the overarching requirements for a collection of net-centric capable systems that will contribute to joint and combined War fighter needs for ISR support. Each service is directed to pursue a coordinated developmental path based on a set of common enterprise services consistent with the DoD's net-centric vision. Furthermore, each service's DCGS solution is to evolve independently through the implementation of common enterprise architecture and standards. The DCGS Integration Backbone (DIB) is intended to be the basic building block for interoperability between the Service DCGS programs and is comprised of integrated Commerical Off The Shelf (COTS) and Government Off The Shelf (GOTS) software package originally developed under the Air Force DCGS 10.2 contract with Raytheon. The Air Force has established a separate DIB Management Office (DMO) to direct day-to-day developmental efforts in coordination with the Army, Navy, Marine Corps, and United States Special Operations Command (USSOCOM) DCGS program offices with oversight provided by OUSD (I). The DCGS-MC program is currently evaluating the appropriate implementation of DIB standards and anticipates leveraging heavily from the developmental efforts of its sister Service DCGS programs as its own developmental efforts are fully underway.

Biometric Communication Architecture (BATS) - Provides a Multi-National Force West (MNF-W) with the proper suite of communications assets which allows the transmission of the Biometric Automated Toolset (BATS) data base from major Forward Operating Bases (FOBs) out to the lowest echelon of Marine units. BATS data contains biometric data collected by both Marines operating within the CENTCOM AOR and other national entities operating around the world, providing a powerful means to positively identify individuals during combat operations.

Tactical Remote Sensor System (TRSS-PIP) will provide all weather direction, location determination, targeting, and tactical indications and warning of enemy activity in the Marine Air Ground Task Force (MAGTF) Commander's Area of Interest. The TRSS-PIP is an equipment suite consisting of three primary sub-systems: Unattended Ground Miniature Sensors (UGMS); Relay Systems; and monitoring systems. The sensor systems will include seismic/acoustic sensors, electro-magnetic sensors, infrared (passive) sensors; and air-delivered sensors. The relay systems include dual channel duplex commendable and single channel repeaters. The monitoring system includes the Sensor Mobile Monitoring System (SMMS). The composition of the three sub-systems are comprised of several individual components. As the Product Improvement Program proceeds, upgrading of individual components will occur on an as needed basis. FY11 OCO supports procurement of imager modification kits, long range camera sets and common sensor radio(CSR) integration kits for OEF equipment.

Exhibit P-40, Budget Item Justification Shee	et	Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747		Intelligence Support Equipment

Joint Surveillance Target Attack Radar System (JSTARS) is a long-range, air-to-ground surveillance system, composed of an airborne element and a ground element. The airborne element, the E-8C aircraft contains a large phased array radar on the fuselage and multiple OZ-63 Air Data terminal (ADT) operator terminals. Radar data is distributed via an encrypted, jam-resistant Surveillance and Control Data Link (SCDL) for transmission to one of two JSTARS ground systems; the Common Ground Station or Joint Surveillance Work Station.(CGS/JSWS) The sensor suite provides detection and tracking data on targets through the use of the Moving Target Indicator (MTI), Fixed Target Indicator (FTI), Synthetic Aperture Radar (SAR) and Unmanned Aerial Vehicle (UAV). FTI and MTI data detect, locate and identify the movement of enemy targets, while SAR identifies critical fixed targets such as bridges, harbors, airports, buildings or stopped vehicles. The CGS is aground received and processed displaying system and receives JSTARS data directly from the E-8C JSTARS aircraft through the SCDL to the Ground Data Terminal (GDT). Once JSTARS data is collected at the ground receive site, MTI/FIT/SAR data will be sent across the Marine Air Ground Task Force (MAGTF) Command Control Communications Computers and Intelligence (C4I) network through existing and evolving tactical data networks. The CGS is also capable of receiving and fusing imagery data from Unmanned Aerial Systems (UAS)s directly onto JSTARS data, providing an enhanced collection processing capability. The JSWS is a functionally equivalent, transit cased subset of the CGS. The JSWS can be used in conjunction with a dedicated SCDL, but typically gets its JSTARS data via a Secret Internet Protocol Router Network (SIPRNET) connection or a Satellite Communications (SATCOM) feed.

Team Portable Collection System - Multi-Platform Capable (TPCS-MPC) is a semi-automated, man/team portable system providing intercept, collection, direction-finding, reporting and collection management to Marine Air Ground Tast Force (MAGTF) commander. It provides special signals intercept, and Direction Finding (DF) capability for each system and is modular, lightweight and team transportable. The next upgrades will be the multi-platform capability and will allow the system to exploit information from more technically advanced target sets and will provide the MAGTF commander with a modular and scalable carry on/carry off suite of equipment. FY11 OCO funds allow for the completion of remaining AAO shortfalls. The TPCS equipment being purchased will be used in direct spport of combat operations in OEF.

Wide Field of View Persistent Surveillance (WFVPS) (formerly Angel Fire (AF)) is a capability that supports persistent Intelligence, Surveillance and Reconnaissance (ISR), Improvised Explosive Device (IED) mitigation, and actionable intelligence in urban and other operations (e.g. disaster relief, security, etc). It delivers broad area, near real time, geo-registered imagery down to the tactical level of execution. Consisting of airborne and ground components such as the airborne payload consists of an imager sensor (currently Electro-Optical (EO), on-board processors, and an air-to-ground communication link. Ground distribution network consist of the ground receive station, servers, storage and viewer client stations. AF is hosted on manned platforms; currently the King Air A-90p pilots fly the plane while the sensors can be controlled from the ground through autonomous software. The USMC objective WFVPS system will reside on an UAS.

Tactical Exploitation Group (TEG) funding purchases the hardware and software for 27 TEG Exploitation Workstations (EWS). These workstations will be Window's-based and will leverage off the TEG Remote Workstation hardware. The workstations will be integrated as part of the TEG Main which will provide a new software/hardware baseline and an upgrade of the TEG-EWS from UNIX to Windows. Ultimately it will provide each Intelligence Battalion with a more modular Imagery Intelligence (IMINT) capability and increased deployment options

First Destination Transportation (FDT) - is utilized to cover program first destination shipping charges in support of programs deliveries.

Exhibit P-40, Budget Item Justification Sheet		Date:	February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nor	nenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747			Intelligence Support Equipment

Topographic ProductionCapability (TPC) is an integrated, independently deployed, self-contained terrain analysis system designed for data acquisition, manipulation, analysis and output, providing commanders and staff with Geospatial Intelligence (GEOINT) support at the Marine Expeditionary Force (MEF), Major Subordinate Command (MSC), and the Marine Expeditionary Unit (MEU) levels. The TPC configurations consist of Commerical-Off-The-Shelf (COTS), Government-Off-The-Shelf (GOTS) software packages, servers, workstations, large-format printing/plotting devices and large-format scanning devices, all mounted in transit cases. The TPC provides critical, timely, and accurate digital and hardcopy geospatial information to support mission planning and execution. The TPC provides the capability to collect, process, exploit, analyze, produce, disseminate, and use all-source geospatial information as a foundation for the Common Tactical Picture (CTP) for the MAGTF Commander. The TPC is used by the Topographic Platoon of the MEF and provides deployable modules down to the Major Subordinate Command (MSC) and the Marine Expeditionary Unit (MEU). It supports the Commander, Joint Task Force or Marine Component Commander. The TPC provides the foundation for the Common Tactical Picture (CTP) of the battlefield; terrain analysis in support of the Intelligence Preparation of the Battlefield (IPB) process; all source terrain data collection, analysis and integration; and decision-aid development support.

MAGTF Secondary Imagery Dissemination System (MSIDS) is the only Family of Systems (FoS) that provides organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. MSIDS is comprised of components necessary to enable Marines to capture, manipulate, annotate, transmit or receive images in near real time (NRT), internally with subordinate commands that are widely separated throughout the area of operations and externally with higher adjacent commands. The MSIDS capability resides with the MAGTF G/S-2 sections, Reconnaissance Battalions, Light Armored Reconnaissance Battalions, Infantry Battalion Scout Sniper Platoons and Marine Special Operations Command. The MSIDS FoS extends the digital imaging capability to all echelons within the MEF, down to and including battalions and squadrons. Captured images are capable of being forwarded throughout the MAGTF and to higher adjacent echelons through the use Base Station Workstation/Communication Interface (BW/CI), Outstation Workstation/Communication Interface (OW/CI) or existing C4ISR architecture. Images can also be transmitted to the Tactical Exploitation Group (TEG) for more detailed processing and analysis. A recent increase of the MSIDS Video Exploitation Workstation (VEW) requirement within Infantry Battalions and Wing units, down to the squadron level, has grown from 18 to 140 in the past year. The VEW is utilized to import, manipulate, annotate still and video imagery, create intelligence products, lift still frames from video, view multi-format TV signals and provide a field briefing capability. MSIDS FoS is currently employed in every location world-wide where the Marine Corps participates in contingency operations, and has recently been employed in Iraq, Kuwait, Afghanistan, Haiti, Philippines and Horn of Africa. FY 2011 OCO funding will allow for the replacement of aging MSIDS equipment in OEF that is unserviceable and allow for the completion of remaining AAO shortfalls.

Exhibit P-40, Budget Item Justification Sheet		Date:	February 2010	
Appropriation / Budget Activity/Serial No:	P-1 Item Nor	nenclature:		
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747			Intelligence Support Equipment	

Intelligence Analysis System Mod (IAS) Family Of Systems (FoS) provides intelligence support to Marines garrison, shipboard, and battlefield missions at all levels of the MAGTF. This support includes the formulation and/or compilation of the commander's Priority Intelligence Requirements (PIR), Essential Elements of Information (EEI), and Other Intelligence Requirements (OIR); contingency planning; management of MAGTF collection assets; all-source intelligence analysis, briefing support, intelligence product fusion, production, reporting dissemination and training. The IAS FoS has proven to be the All-Source Fusion Center that provides interoperable scalable, semi-automated capabilities to receive, process, analyze, display and disseminate all-source intelligence, including imagery, to support timely tactical decision-making across MAGTF. OCO funds will be used to procure IAS FoS Tier III computer equipment (HP 6930p Windows laptops) in support of OCONUS Contingency Operations (OCO). Tier III equipment is supporting all echelons in Afghanistan and Iraq. The Tier III is mission essential to the intelligence effort and supporting the formulation of the commander's Essential Elements of Information (EEI) and other Intelligence Requirements (OIR). The A0874 TAMCN is in full operational use in Afghanistan and Iraq. This will be the final increment purchase for Afghanistan.

Intelligence Equipment Readiness (IER) provides a responsive capability to alleviate Marine Corps intelligence systems shortfalls created by the rapidly evolving missions, threats and command relationships associated with the Overseas Contingency Operations (OCO) and 21st Century expeditionary military operations. IER provides for rapid technology insertion, as well as quick reaction training and logistics, to meeting the time sensitive intelligence infrastructure requirements of Marine Corps Operating Forces and the theater and service intelligence organizations supporting those forces. IER rapidly mitigates intelligence infrastructure shortfalls through exploitation of COTS, GOTS and Non-Developmental Item technology to the greatest extent practical. IER also centralizes support for Marine Corps intelligence infrastructure items and systems that are not separately identified within the program funding lines. IER provides the capability to address requirements that span across the entire Marine Corps intelligence systems architecture.

Communication Emitter Sensing and Attacking System (CESAS) is an advanced Electronic Attack (EA) system that can be mounted in a variety of platforms including High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), waterborne platforms, helicopters, and the MV-22 aircraft. The system provides Marine Air-Ground Task Forces (MAGTFs) with the capability to detect, disrupt and deny enemy radio communications during amphibious assaults and subsequent operations ashore. The system is being integrated into existing armored vehicle assets, currently M1165s HMMWVs and into an Mine Resistant Ambush Protected (MRAP) vehicle by FY10. FY 2011 OCO funds support integration of CESAS suites into MRAP vehicles to support MEB-A ground EA mission requirements.

Radio Reconnaissance Equipment Program (RREP) provides equipment only for special operations capable, foot-mobile signals intelligence (SIGINT) collection teams in the USMC. These Radio Reconnaissance Teams and Marine Corps Forces Special Operations Command (MARSOC) Direct Support Team (DST) are trained and equipped to support the full spectrum of Marine Expeditionary Unit Special Operations Capable (MEU SOC) mission profiles as well as provide real-time imbedded support to any special operations scenario. This provides the supported commander greater flexibility in employing his SIGINT assets when the use of conventional Radio Battalion assets are not feasible. FY 2011 OCO procurement of hardware refresh is planned in direct support of combat operations in OEF.

Exhibit P-40, Budget Item Justification Sheet	t	Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747		Intelligence Support Equipment

Counter Intelligence and Human Intelligence Equipment (CIHEP) provides dedicated Marine Air-Ground Task Force (MAGTF) CI/HUMINT support for full spectrum controlled, surreptitious, and tactical CI/HUMINT, Force Protection, and technical collection operations with a suite of integrated, standardized and interoperable equipment. The CIHEP suite of state-of-the-market equipment Commerical Off-The-Shelf (COTS) and Non-Developmental Item (NDI) enhances the CI/HUMINT Company ability to collect, receive, process and disseminate CI/HUMINT information from overt, controlled, sensitive, technical, tactical, CI, HUMINT, and Force Protection operations in the Service, Joint and Combined Forces arenas. CIHEP integrates audio, video, imagery, communications, technical surveillance and automated data processing equipment into lightweight, modular, deployable packages. CIHEP acquisition status is Post Milestone C, a fielded Accelerated Acquisition Program (AAP) System.

The Joint Tactical Terminal/Common Integrated Broadcast Service – Modules (JTT/CIBS-M) Intelligence Broadcast Receiver (IBR) consists of a family of terminals and CIBS-M hardware and software modules. The Marine Corps IBR systems provide intelligence data to command, control, and intelligence (C2I) elements of the MAGTF. This construct provides a single family of IBRs for use by the armed forces. Currently there are three configurations in use by the Marine Corps; the JTT-T/R (Transmit/Receive); the JTT-R (Receive only), and the Universal Serial Bus Embedded National Tactical Receiver (USB ENTR), which has completed development and is in the operational evaluation phase. The IBR systems provide critical, near-real-time intelligence to the tactical commander. OCO PMC to procure 75 (24%) of the required 285 USB Embedded National Tactical Receivers (ENTR) which provide the only direct access to intelligence data broadcast over the Integrated Broadcast Service (IBS). Access to IBS is essential for 9 Programs of Record currently supporting OIF/OEF.

Technical Surveillance Countermeasures (TSCM) is a multi-service/agency required "performance level" suite of equipment providing Marine Air-Ground Task Force (MAGTF) Commander with a state-of-the-art, mission critical data protection capability required by national directive for each participant authorized to engage in this activity. Equipment is designed to detect, locate, identify, neutralize and/or exploit hostile audio, Radio Frequency (RF), Laser, Infrared (LI), optical, and telephone surveillance threats in and around areas where classified or sensitive information is discussed, and/or viewed. Equipment is selected based on current threat estimates evaluated by the National Committee for Technical Surveillance (NCTS) Facilities Protection Committee Technical Surveillance Working Group (TSWG). TSCM is in post milestone C and a fielded AAP system. TSCM consists of Commercial Off The Shelf (COTS)/Non-Developmental Items (NDI) equipment selected by the TSWG Preferred Product List (PPL). Equipment is refreshed every two years.

Exhibit P-40, Budget Item Justification Sheet	:	Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747		Intelligence Support Equipment

Joint Worldwide Intelligence Communications System (JWICS) is the Top Secret Sensitive Compartmented Information Top Secret/Sensitive Compartmental Information (TS/SCI) portion of the Defense Information System Network. It incorporates advanced networking technologies that permit point-to-point or multi-point information exchange involving voice, text, graphics, data and video teleconferencing within the Department of Defense (DOD) Intelligence Community. JWICS provides Marine Forces with special intelligence that significantly enhances the detail and quality of intelligence support that intelligence organizations provide to operating forces in both tactical and garrison environments. This intelligence support provides 24-hour TS/SCI intelligence processing, imagery production/manipulation, TS/SCI data dissemination between DoD components, and multimedia communications to include Joint Intelligence Virtual Architecture (JIVA) and Net-Meeting Point-to-Point video teleconferencing, which are required for collaboration with various theater and national intelligence organizations. FY 2011 OCO will procure storage hardware upgrades to the DISN and installation support that will allow for advanced intelligence support to the operating forces during OEF.

Identity Dominance System (IDS) - IDS will provide a nultimodal biometric collection system that collects and copares fingerprints, iris images and facial photos to enroll, identify and track persons of interest and build digital dossiers on individuals that include interrogation reports, biographic information, relationships, etc. for the purposes of force protection and high-value target identification. The system is expected to be a Family of capabilities with hardware and software that is off-the-shelf, form Government and Commercial sources. The Family of Capabilities will include a server suite capability, a client capability and an untethered/handheld capability. The IDS eill interoperate with a variety of other systems and adhere to applicable technical standards, to include the DOD Automated Biometric Identification System (ABIS) and the Electronic Biometric Transmission Standard (EBTS). IDS will incrementally phas out the Biometric Automated Toolset (BAT).

Exhibit P-40, Budget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment / 4747	P-1 Item Nomenclature:	Intelligence Support Equipment
FY11 Overseas Contingency Operations Request (OCO): \$82.987 Joint Worldwide Intelligence Communications System (JWICS) Trojan Spirit Lite (TROJAN) Team Portable Collection System - Multi-Platform Capable (TPCS-MP Technical Control and Analysis Center PIP (TCAC-PIP) Tactical Remote Sensor System (TRSS) MAGTF Secondary Imagery Dissemination System (MSIDS) Intelligence Analysis System (IAS), Mod Kit Radio Battalion Moderization and Concept Exploration (RadBn Mods) Communication Emitter Sensing and Attacking System (CESAS) Intelligence Broadcast Receiver (IBR) Please see descriptions above for OCO request programs.	PC)	
FY10 ISR Task Force: \$14.300 Intelligence Equipment Readiness (IER) Joint Worldwide Intelligence Communications System (JWICS) Distributed Common Ground System-Marine Corps (DCGS-MC) FY11 ISR Task Force: \$6.000 Joint Worldwide Intelligence Communications System (JWICS)		

Exhibit P-40a, Bu	dget Item	Justificatio	on for Aggre	gated Item	ıs		Date: February 2010					
Appropriation / Budget Activity					P-1 Item Nomenclature:							
Procurement, Marine Corps (1109) / 04 Communication	s and Electron	ics Equipmen	t / 4747			Int	elligence Suppor	rt Equipment				
Procurement Items	Code	UOM	Prior Years (\$M)	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011				
TSCM	Α	D	5.625	0.000	1.382	0.000	0.000	0.000				
Topographic Production Capability (TPC)	Α	D	0.0	3.200	0.000	0.000	0.000	0.000				
Wide Field of View Persistent Surveillance (WFVPS)	Α	D	0.0	0.000	0.000	4.652	0.000	4.652				
First Destination Transportation (FDT)	А	D	0.0	0.061	0.000	0.000	0.000	0.000				
Totals			5.625	3.261	1.382	4.652	0.000	4.652				
Active			5.625	3.261	1.382	4.652	0.000	4.652				
Reserves			0.000	0.000	0.000	0.000	0.000	0.000				

E 1 1 2 B E		01	Appropriation/	Budget Activi	ty/Serial No:			P-1 Line Item	Nomenclature) :	Weapon Syst	em Type:	I	Date:	
Exhibit P-5 Analy	ysis	Cost	Procurement, Electronics Eq			ommunication	s and	Intelliger	nce Support Ed	quipment				Februa	ry 2010
Weapon System	Cost		Prior Yrs		FY 09			FY 10			FY 11				
Elements		ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>															
Tier I UAS (GROUP 1) Raven B UAS (8 channel variant) Raven B UAS (DDL variant) Components Government Furnished Equipment -Contractor Support		А	37472 3444	5293 6361 2700 450 544	48 50 VAR VAR	110268 127213 VAR VAR									
TCAC Software Licenses Contractor Support RAWS Software Licenses TWS Software Licenses				1926 621	VAR VAR	VAR VAR	515 458 458	Var	Var Var Var	1101	VAR	VAR			
Laptop Refresh Software Refresh Server Refresh				1000 460	VAR VAR	VAR VAR				4250 5000 2174	VAR VAR VAR	VAR VAR VAR			
IBR System Upgrades Program Support				3148	VAR	VAR	3406 3400		VAR VAR	1051	VAR	VAR			
JSTARS Program Support	Subtotal Baseline		40916	2381 24884	VAR	VAR	6338 14575		VAR	4843 18419	VAR	VAR			
FY11 0C0															
TCAC RECORDER REPRODUCER Software Licenses Contractor Support RAWS Software Licenses TWS Software Licenses										1082 256 1000 110 764	VAR VAR VAR VAR	VAR VAR VAR VAR			
IBR USB Embedded National Tactical Re	ceivers(ENTR)									3199	VAR	VAR			
	Subtotal FY11 OCO									6411					
	TOTAL ACTIVE RESERVE		40916	24884			14575			24830					
Reserves															
	Subtotal Reserves														

Exhibit P-5,		Appropriation/ Budget Activity/Serial No: P-1					P-1 Line Item Nomenclature:			Weapon System Type:			Date:	
Cost Analysis		Procurement,	Marine Corps (11		nunications and	d Electronics		nce Support Ed			. ,,			ry 2010
,		Prior Yrs	747	FY 09			FY 10	ioo ouppoit Et	quipmont	FY 11	1		1 Obliga	y 2010
Weapon System	ID CD	TotalCost	1				1		TotalCost	I	Т	TotalCost	ı	T
Cost Elements	15 05	\$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$
<u>Baseline</u>														
TRSS PIP	Α													
UNATTENDED GROUND MINIATURE SENSOR														
(UGMS) Encoder Transmitter Unit II		13411												
Detectors		8366	660	VAR	VAR									
Radio Repeater		5032	000	*/	*/									
Hand Held Programmer Monitor		941	992	VAR	VAR									
Thermal Imagers		13722												
Sensor Mobile Monitoring Systems		25331												
TRSS Test Set		103												
Single Battery Power Units Iridium Modems for SDR II		7221 1189												
Laptops and Software		125	1122	136	8250	1000	VAR	VAR						
Imagers Phase 1 & 2		4755	5926	100	59255	1000	*/	*/ \						
Sensor Upgrade/Spares		1514												
Blue Radio NRE/MCSR/CSR/HHPM		4009				1590	VAR	VAR	2275	VAR				
- Technical Documentation		2365	625						700	VAR	VAR			
- Software/Instructor Support\MCSC			340											
- Eng/ALA Support		7000	354			1085		VAR	355	VAR				
- Project Management		7860	2288			1728	VAR	VAR	1891	VAR	VAR			
Team Portable Collection System	Α	9545												
Program Management		6687	5368	VAR	VAR	858	VAR	VAR	2161	VAR	VAR			
Upgrades									14950	23				
Mod Kit		2183							2744	VAR	VAR			
ILS (PIKS)		3550	302											
Training		364	3624	VAR	VAR									
TPCS Systems Spares		6000 3547	3024	VAR	VAR				2937	VAR	VAR			
Long Lead Items		4045							2331	VAIN	VAIX			
Hardware Support														
SIGINT Fix			3000	var	var									
TEG														
TEG RWS REFRESH		9598		var	var									
Video Cards			2000	var	var									
Intelligence Equipment Readiness														
Intelligence Equipment Readiness			4070	\/A.D.	VAR									
Video Exploitation Workstation CATEIS (software)			1278	VAR	VAR									
Integrated Logistic Support (FY10 ISR TF)			3183	VAR	VAR	2100	VAR	VAR	1645	VAR	VAR			
Tech Documentation (FY10 ISR TF)		2331	818	VAR	VAR	3507	VAR	VAR	3789	VAR	VAR			
Eng/Program Mgmt Support (FY10 ISR TF)		2000	231	VAR	VAR	5412	VAR	VAR						
Subtotal Baseline		145794	36925			17280			33447					
FY11 OCO		143734	30923			17200			33447					
TRSS PIP	Α													
SATCOM Kits/Iridium Modems for SDR II									593	VAR	VAR			
Imagers Phase 1 & 2														
Long Range Cameras									3403	VAR				
Blue Radio NRE/MCSR/CSR/HHPM - Project Management									913	VAR	VAR			
MAINT KIT, TRSS, ELECTRONIC EQUIP									12	VAR	VAR			
ADAPTER TEST (TRSS)									107	VAR	VAR			
TPCS														
Collection Systems Team Portable									24500	VAR				
Artemis/Nemisis									1500	VAR	VAR			
Support									516					
Subtotal FY11 OCO									31544					
TOTAL		145794				17280			64991					
ACTIVE		145794	36925			17280			64991					
RESERVE														
Notes: FY10 ISR TF Increase to IER Integrated Logistics Support 2.1M														
Tech Documentation \$2.1M														
Eng/Prog Mgmt \$2.1M														
5 -5 5														

Exhibit P-5,			Budget Activity/S					P-1 Line Item No	menclature:		Weapon Syster	m Type:	Date:	
Cost Analysis		Procurement, 4747	Marine Corps (11	09) / 04 Comr	nunications an	d Electronics E	equipment /	Intelligend	e Support Equ	ipment			Februa	ry 2010
Weapon System		Prior Yrs		FY 09			FY 10			FY 11			· ·	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
Intelligence Analysis System (FOS)														
Eng/Mgmt Support			122	VAR	VAR	1516	VAR	VAR						
IOS Refresh (IOSV2A) IOS Refresh (IOSV3)			787	14	56200	1536	48	32000	1767	30	58900			
Software Refresh/Maint								0_000	1298					
MEF IAS Refresh Program Technical Support			150	VAR	VAR	1482	VAR	VAR	3200 578	VAR VAR				
Laptops			130	VAR	VAR	1402	VAK	VAR	6811	VAR				
Radio Recon Equipment Program (RREP) MCSC Internal Withholds			363	VAR	VAR									
SS-3 Upgrades		5165	1852	VAR	VAR									
Special Purpose Equipment		3344	1345	VAR	VAR									
Program Support		1816	1427	VAR	VAR	1081	VAR	VAR						
Next Generation Systems			2258						4682	VAR	VAR			
Program (CIHEP)														
- Hardware Upgrades		15767	4254	VAR	VAR	6138	VAR	VAR	9716	VAR	VAR			
Data Processing Module Surveillance Ugrades		3000 1247		VAR	VAR		VAR	VAR						
- Software Upgrades		1384	760	VAR	VAR		VAR	VAR	240	VAR	VAR			
- Ancilliary Equipment		1483												
- Program Support		4857	77			77	VAR	VAR						
DCGS														
COTS Items														
Integrated Logistic Support			115	VAR	VAR		V4D	\/A.D.						
Program Management Support DGIL Suites (FY10 ISR TF)						535 2000	VAR VAR	VAR VAR						
							****	****						
Subtotal Baseline		38063	13510			14605			30290					
FY11 OCO														
Intelligence Analysis System (FOS)														
Eng/Mgmt Support IOS Refresh (IOSV2A)									166 419					
IOS Refresh (IOSV2A)									419	VAR	VAR			
Software Refresh/Maint									308					
MEF IAS Refresh									760	VAR	VAR			
Program Technical Support COMPANY LEVEL INTEL CELL INTEL OPERS									137					
WORKSTATION (CLIC-IOW									3990	VAR	VAR			
Radio Recon Equipment Program (RREP) Hardware Refresh									6984	VAR	VAR			
Subtotal FY11 OCO									12764					
TOTAL		38063	13510			14605			43054					
ACTIVE*		38063	13510			14605			43054 43054					
RESERVE*														
Reserves														
Subtotal Reserves														

Exhibit P-5,			Sudget Activity/Seria		utions on 151-	onico Equipora	/ 4747	P-1 Line Item N			Weapon System	n Type:	Date:	n: 2010
Cost Analysis		Procurement, M Prior Yrs	arine Corps (1109)	/ 04 Communica FY 09	itions and Electr	onics Equipment	/ 4747 FY10	intelligence Sup	port Equipment	FY 11			Februa	ry 2010
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
Baseline MSIDS Suites		17997	2990	VAR	VAR	2866	VAR	VAR						
Data Controllers Software NVD Adapters Camera Equipment Computers		108 9				1525	VAR	VAR	15 50	VAR VAR	VAR VAR			
CLS Program Support		1463	554 1796	VAR VAR	VAR VAR	746 3355	VAR VAR		768 3354	VAR VAR	VAR VAR			
CESAS Program Management ILS System Upgrades			1496 1200 6180	VAR VAR VAR	VAR VAR VAR				167	VAR	VAR			
TROJAN Program Management ILS System Upgrades			8478	VAR	VAR	107	VAR	VAR	107	VAR	VAR			
IDS Program Management Wireless Point to Point Link (WPPL) System Upgrade Progr			1200 29177 10000	VAR VAR VAR	VAR VAR VAR	3706	VAR	VAR						
MTSS System Upgrades Support			5000 1000	VAR VAR	VAR VAR	16500 1500	VAR VAR	VAR VAR						
JWICS SCI IT & Hardware Storage Hardware (FY10 ISR TF) Software (FY10 ISR TF) Integration Support (FY10 ISR TF)		3170	826	VAR	VAR	867 4500 520 980	VAR VAR VAR VAR	VAR VAR	1108	VAR	VAR			
Subtotal Baseline <u>FY11 OCO</u>		22747	69897			37172			5569					
MSIDS Data Controllers Computers CAMERA SUITE, DIGITAL, VIDEO BASE STATION WS/COMM INTERFACE COMPUTER SYSTEM, DIG DAY/NIGHT IMAGER, V2 (IMAGER 2) THERMAL COMPONENTS									1050 1389 1219 1234 3447 744 3295	VAR VAR VAR VAR VAR VAR	VAR VAR VAR VAR VAR VAR			
CESAS System Upgrades									2000	VAR	VAR			
TROJAN SWAN D v3									11800	VAR	VAR			
JWICS Storage Hardware (FY11 ISR TF) Integration Support (FY11 ISR TF)									5035 965	VAR VAR	VAR VAR			
Subtotal FY11 OCO									32178					
TOTAL ACTIVE RESERVE		22747 22747	69897 69897			37172 37172			37747 37747					

	Exhibit P-5a	a, Budget Procureme	nt History and Plannin	g				Date:	February 2010	
Appropriation / Budget Activity/Serial	No:	Weapon System Type:			P-1 Line Item Nomenclatur	e:				
Procurement, Marine Corps (1109) / 0 Equipment / 4747	4 Communications and Electronics					Intelli	igence Supp	oort Equipmer	nt	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
TIER I UAS FY09 RAVEN B UAS	AeroVironment, Simi Valley, CA	FFP	PM-UAS, Redstone, AL	Jan-09	Sep-09	98	118913	Yes	N/A	N/A
TPCS - MPC FY11 TPCS Systems	Various	FFP	SPAWAR, Charleston, SC	Jul-11	Sep-11	23	650000	YES	N/A	N/A

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FY11	МС	23		23			1	1		1			Α		3		3		3		3		3	1	3	5	0
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	Exhibit P-40,	Budget Iter	m Justifica	tion Sheet			Date:		Februa	ry 2010		
Appropriation / Budget Ac	tivity/Serial No:				P-1 Item Nor	nenclature:						
Procurement, Marine Corp 4757	ps (1109) / 04 Comn	nunications and	d Electronics E	quipment /				RQ-11 Unman	ned Air System	ns		
Program Elements: 0305232M / 0305234M M Equipment	larine Corps Commu	ınications	Code:	Other Relate	d Program Ele	ements:						
	Prior Years	FY 2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Compl	Total Cost
Proc Qty	0.0											
Gross Cost		0.0	41.5	32.5	0.0	32.5	44.8	72.4	69.9	71.7	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	41.5	32.5	0.0	32.5	44.8	72.4	69.9	71.7	Cont	Cont
Initial Spares	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont
Total Proc Cost	0.0	0.0	41.5	32.5	0.0	0.0	44.8	72.4	69.9	71.7	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont

TIER I (GROUP 1) UAS - The TIER I (Group1) UAS program procures a capability for unmanned aircraft systems (UAS) to provide the company/detachment level with airborne reconnaissance to aid in detecting, identifying and engaging or avoiding enemy units. The UAS air vehicle autonomously gathers and transmits imagery of the tactical situation in near-real time at a range of up to ten kilometers. The material solution for the GROUP 1 requirement is the Raven B UAS. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. The air vehicle flies at an altitude of 300-500 feet above ground level (AGL) at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. Raven B's interchangeable payloads, autopilot and propulsion system are also commercial-off-the shelf (COTS) subsystems. The Ground Control Station (GCS) uses a rugged hand controller connected to a communication control box. A Raven B system consists of three Raven B air vehicles; two GCS; one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit; one Field Repair Kit (FRK). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. The FRK contains consumable items used during operations and maintenance. Raven B is a joint US ARMY/USSOCOM Program. Funds will be allocated to replace the previously fielded SURSS, Block 0 which are reaching the limit of operational life and provided initial issue spares. FY09 funding resides in BLI 4747. FY10 and beyond resides in BLI 4757. In FY10, the Program Office expects to procure the balance of SURSS Block I (Raven B) systems to it's current AAO and commence defielding of all DE block 0 systems. In FY11 and beyond, the current funding will sustain GROUP 1 to the authorized AAO.

Tier II UAS - This is a combined Navy (PE 0305204N) and Marine Corps (PE 0305234M) budget submission. The Tier II/UAS will provide persistent, Intelligence, Surveillance, and Reconnaissance (ISR) support for tactical level maneuver decisions and unit level force defense/force protection for Navy ships and Marine Corps land forces. This system will fill the ISR capability shortfalls identified by the Navy Small Tactical Unmanned Aircraft System (STUAS) and Marine Corps Tier II UAS efforts. Consisting of four air vehicles, two ground control stations, multiple payloads, and associated launch, recovery and support equipment this system will support the Navy missions including building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and support of Navy units operating from sea/shore in the GWOT and the Marine Corps close range (<50 nautical miles (nm)) Unmanned Aerial Systems (UAS) enabling enhanced decision-making and improved integration with ground schemes of maneuver. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE 0305204N. This program was moved to PE 0305234M in FY10.

Exhibit P-5 Cost Analysis		Procureme	on/ Budget nt, Marine (Equipment	Corps (1		ommunications	and	P-1 Line Item N	lomenclature -11 UAV	:	Unma	System Type: anned Air stems		uary 2010
Weapon System	ID	Prior Yrs		FY 09			FY 10			FY 11				
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline Tier I (GROUP 1) UAS Tier I System (3 Air Vehicles, 2 Ground Control Stations, 1 RSTA Kit) Components Initial Spares Package Government Furnished Equipment	Α					17689 6510 3538 755	135 VAR VAR VAR	131029 VAR VAR VAR	5989 200					
Tier I System w/ Distributed Data Links(DDL) (3 Air Vehicles, 2 Ground Control Stations, 1 RSTA Kit) Initial Spare Package Tier I Systems DDL Retro Fit Upgrade ECP Government Furnished Equipment						3931 1921 7000 148	30 VAR VAR VAR	131029 VAR VAR VAR						
Tier II (Group 3 UAS) System Purchase (4 Air Vehicles per Sys) Test and Evaluation Support General Purpose Test Equipment Integrated Lostistics Support Contractor Consulting Services Destination Transportation Program Support	Α								20576 1800 500 1065 2000 240 120	VAR VAR VAR VAR	VAR VAR VAR VAR	,		
Subtotal Baseline						41492			32490					
TOTAL ACTIVE Reserve						41492 41492 0			32490 32490 0					

Ex	hibit P-5a, Budget Procu	rement H	istory and Planning					Date:	February 2010	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 04 Communica 4757	ions and Electronics Equipment /	,	ystem Type: nmanned Air Systems		P-1 Line It	tem Nomer	nclature: RQ-11 Unma	nned Air		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY10 Tier I Tier I with DDL	AeroVironment Inc, Simi Valley, CA AeroVironment Inc, Simi Valley, CA		PM-UAS, Redstone, AI PM-UAS, Redstone, AI	Jan-10 Jan-10	May-10 May-10	135 30			N/A N/A	N/A N/A
FY11 Tier II	TBD	TBD	TBD	TBD	TBD	4	5144000	TBD	TBD	TBD

REMARKS: Tier I UAS consists of the Raven B UAV and USMC GFE. The Raven B and all GFE is being procured using existing Army contracts. The USMC quantities are in addition to what the Army is procuring.

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Appropriation Code/CC/BA/BS/ Procurement, Marine Corps (11 Equipment / 4757		ations	& Ele	ctroni	cs			apon nann	•	tem ir Sy	rsten	ns		P-1	Item	n Nor	meno			11 L	Jnma	anne	ed Ai	r S\	yste	ems					
										ION					PR	OCL	JREN							T	_	_		_			
ITEM	Manufacture	r's NAI	ME / I	LOCA	TIO	N		SR		ON	MA			T P	rior	AL	T Af Oct 1	ter	Init	ial N PLT	Лfg	Re	eorde g PL		_	TO ⁻	ΓAL			Unit ⁄leas	
Tier I UAS (FY10)	AeroVironme	ent, Sim	ni Vall	ley, C	Α		5	50	1:	50	30	00					3			4			1	-	_	7	7	\exists	Eacl	h	
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										Fi	iscal	Yea			enda	r Yea	ar 08						Fisca				Yea	r 09)		B A L
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ITEM Tier I UAS		FY10	_		0	165		V		A	D	ĸ	ĸ	Y 25			25 25				C	IN	D	ĸ	rx		IN		G	_	0
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Remarks								<u> </u>																				ш			

	Exhibi	t P-40, Bu	dget Item J	ustification	n Sheet				Date:	Febru	ary 2010	
Appropriation / Budget Activity/Ser	ial No:						P-1 Item Non	nenclature:	-			
Procurement, Marine Corps (1109)) / 04 Communication	s and Electro	nics Equipmer	nt / 4767			Dist	ributed Comm	on Ground Sy	stem-Marine	Corps (DCGS-	MC)
Program Elements:				Code:		Other Related	Program Elen	nents:				
0305208M USMC Intellig	ence/Electronic Warfa	are Systems ((MIP)	Α								
	Prior Years	FY2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog.
Proc Qty												
Gross Cost	0.0	0.0	0.0	4.6	21.8	26.4	4.5	6.1	2.2	2.1	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	4.6	21.8	26.4	4.5	6.1	2.2	2.1	Cont.	Cont.
Initial Spares	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.
Total Proc Cost	0.0	0.0	0.0	4.6	21.8	26.4	4.5	6.1	2.2	2.1	Cont.	Cont.
Flyaway U/C	·											
Wpn Sys Proc U/C												
Reserves						0.0						

Distributed Common Ground/Surface System (DCGS), in compliance with the Department of Defense DCGS Family of Systems concept, is a Service-level effort to migrate select USMC Intelligence, Surveillance and Reconnaissance (ISR) processing and exploitation capabilities into a single, integrated net-centric baseline consisting of functional capability sets that support Marine intelligence analysts across the Marine Air-Ground Task Force (MAGTF) by making organic ISR data more visible, accessible, and understandable. The Distributed Common Ground System-Marine Corps (DCGS-MC) concept originated with the DCGS Mission Area Initial Capabilities Document (MA ICD) Joint Requirements Oversite Council Memorandum (JROCM 001-03) dated 6 Jan 03 which established the overarching requirements for a collection of net-centric capable systems that will contribute to joint and combined War fighter needs for ISR support. Each service is directed to pursue a coordinated developmental path based on a set of common enterprise services consistent with the DoD's net-centric vision. Furthermore, each service's DCGS solution is to evolve independently through the implementation of common enterprise architecture and standards. The DCGS Integration Backbone (DIB) is intended to be the basic building block for interoperability between the Service DCGS programs and is comprised of integrated Commerical Off The Shelf (COTS) and Government Off The Shelf (GOTS) software package originally developed under the Air Force DCGS 10.2 contract with Raytheon. The Air Force has established a separate DIB Management Office (DMO) to direct day-to-day developmental efforts in coordination with the Army, Navy, Marine Corps, and United States Special Operations Command (USSOCOM) DCGS program offices with oversight provided by OUSD (I). The DCGS-MC program is currently evaluating the appropriate implementation of DIB standards and anticipates leveraging heavily from the developmental efforts of its sister Service DCGS programs as its own developmental efforts

FY11 OCO Request:

Replace critical servers and laptops that are currently being used in OEF and other OCO activities. These servers and laptops are nearing end of life in FY10 and will become obsolete The servers and laptops provide the means to scale capability up or down, dependent on the type of mission, size of the force, and geospatial requirements, in OEF and OCO, to support the development of Geospatial mapping products. The servers and laptops ensure connectivity is maintained with internal/external agencies to push-pull Geospatial Intelligence in order to provide deployed unit commander with near real time mapping products. The servers and laptops are high end technology that provides the capability to host a myriad of software that enables unit commanders to produce Geospatial mapping products locally.

Exhibit P-40a	, Budget It	em Justific	ation for A	ggregated	Items		Date:	February	2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Comr	nunications ar	nd Electronics	Equipment / 47		P-1 Item Nomencla Dist		n Ground Syster	m-Marine Corps	(DCGS-MC)	
Procurement Items	Code	UOM	Prior Years (\$M)	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
DCGS	А	D	0.000	0.000	0.000	4.582	0.000	4.582		
Totals			0.000	0.000	0.000	4.582	0.000	4.582		
Active Reserves			0.000	0.000	0.000	4.582 0.000	0.000	4.582 0.000		

Exhibit P-5, Cost Analysis			/ Budget Activity/S Marine Corps (11		munications ar	nd Electronics		P-1 Line Item No	omenclature: ce Support Equ		Weapon Syste	m Type:	Date: Februa	ry 2010
Weapon System		Prior Yrs		FY 09			FY 10			FY 11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>FY11 0C0</u>														
DCGS WORKSTATION, GEOSPATIAL INFO LIBR, DEPLOY (DGIL) LIBRARY, GEOSPATIAL INFO, TACTICAL									3145	VAR				
(TGIL) SERVER, GEOSPATIAL INFO LIBR, DEPLOY (DGIL)									645 1500	VAR VAR				
MAPPING SYSTEM, TERRAIN ANALYSIS, DIGITAL (DTAMS) TOPOGRAPHIC PRODUCTION CAPABILITY (TPC) SET									3780 74	VAR VAR				
SUPPORT TPC TECH REFRESH									2845 9800	VAR VAR				
Subtotal FY11 OCO									21789					
TOTAL ACTIVE* RESERVE*									21789 21789					
Reserves Subtotal Reserves														

	Exh	ibit P-40, B	udget Item .	Justificatio	n Sheet			Date:		February 2	010	
Appropriation / Budget Procurement, Marine C	•	ommunications	and Electronics	Equipment / 4	1930	P-1 Item Nom NIGHT VISIO	enclature: N EQUIPMENT	(493000)				
Program Elements:				Code:	Other Related	Program Elem	ents:					
02	206211M Divisions	(Marine)		Α								
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	1355.6	53.1	10.3	0.0	0.0	0.0	8.9	10.8	13.0	13.4		1465.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1355.6	53.1	10.3	0.0	0.0	0.0	8.9	10.8	13.0	13.4		1465.1
Initial Spares	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Proc Cost	1356.7	53.1	10.3	0.0	0.0	0.0	8.9	10.8	13.0	13.4		1466.2
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0

FAMILY OF INDIVIDUAL OPTICS (FOIO) - Provides handheld, helmet mounted and weapons optics systems including various thermal, image intensifier, magnified optical, laser range-finding, illuminating, and pointer functionalities. Replaces multiple single-purpose night vision equipment (NVE) fielded to the Marine Corps.

FAMILY OF OPTICAL SYSTEMS (FOS) - Transitions Family of Individual Optics to Family of Optical Systems to encompass all Optical systems into this program. Provides handheld, helmet mounted and weapons optics systems including various thermal, image intensifier, magnified optical, laser range-finding, illuminating, and pointer functional Replaces multiple single-purpose night vision equipment (NVE) fielded to the Marine Corps.

NIGHT VISION EQUIPMENT (NVE) - Multiple optical and Electro-Optical (EO) systems to allow the dismounted Marine the ability to acquire, locate, identify, and engage tarduring daylight/limited visibility conditions, perform navigation and manual tasks during limited visibility conditions utilizing ambient or covert illumination. Current systems type comprise of a single operating modality, such as direct viewing of visible wavelengths, low light image intensification (I2), or thermal imaging. Complementary systems, such as near-infrared laser pointers viewable only through I2 devices, provide additional enhancement of capabilities. A more recent development consists of "clip-on" EO systems allowing use of alternative operating modes without removing or disrupting the alignment of the base optic, and minimizing impact on employment techniques.

NIGHT VISION MODIFICATION (NVM) - Procures and install modification kits and provide essential services to maintain and improve quality of service, performance, safety and life-cycle support of in excess of 620,000 legacy Principle End Items (PEI). The NVM provides a means of maintaining and upgrading the Marine Corps NVE through technological advances and to develop Engineering Change Proposals (ECPs) for legacy PEIs.

	Exhi	bit P-40, Bu	udget Item .	Justificatio	n Sheet			Date: February 2010						
Appropriation / Budget Procurement, Marine (•		ns and Electro	nics Equipme	ent / 4930	P-1 Item Nor NIGHT VISIO	nenclature: DN EQUIPMEN	T (493000)						
Program Elements:				Code:	Other Relate	d Program Ele	ments:							
020	6211M Divisions	(Marine)		Α										
	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011								
Proc Qty														
Gross Cost	1355.6	53.1	10.3	0.0	0.0	0.0	8.9	10.8	13.0	13.4		1465.1		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	1355.6	53.1	10.3	0.0	0.0	0.0	8.9	10.8	13.0	13.4		1465.1		
Initial Spares	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1		
Total Proc Cost	1356.7	53.1	10.3	0.0	0.0	0.0	8.9	10.8	13.0	13.4		1466.2		
Flyaway U/C														
Wpn Sys Proc U/C														
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		

PRINCIPLE END ITEM (PEI) REPROCUREMENT- Procures systems lost or damaged beyond economical repair due to combat loss, increased training, and normal u The focus of PEI Reprocurement is to support those items that have no active procurement program to quickly replenish inventory due to combat losses and high rate of usage.

SNIPER SYSTEM CAPABILITY SETS (SSCS) (OPTICS) - Procures Sniper Day/Night Target Acquisition and Surveillance (SDNTAS) devices for the Marine Corps. The SDNTAS capabilities provide the scout sniper the ability to detect, recognize, identify and accurately engage targets day, night and in obscure battlefield conditions to maximum effective ranges of the sniper's weapon in all environments where the sniper may be employed. The SSCS funding will provided funding for the the following systems: The Scout Sniper Day Scope (SSDS) is a variable power scope that provides scout sniper with the capability to clearly, easily and quickly acquire and engage in close-in targets, and targets out to the maximum effective range of the host weapon. The Scout Sniper Observation Telescope (SSOT) is a variable powered observation telescope with a reticule similar to the SSDS allowing the sniper scout shooter-observer team to observe and engage targets near and far. The Scout Sniper Mid Range Night Sight (SSMRNS) is an in-line, image intensification device that clips to the sniper rifles in front of the SSDS and provides capability of night vision to the scout sniper teams. The Sniper Observer Night Observation Device (SONOD) is a lightweight, night vision device for detecting, recognizing, observing, identifying, and ranging targets during reduced light. The SONOD will be used in conjunction with the SSOT. The Scout Sniper Urban Night Sight (SSUNS) is a lightweight, weapon-mounted and batter-operated imaging device for engagement of targets at night and low light conditions. The SSUNS will be used in conjunction with the SSDS. This program moves to BLI 222000 Weapons and Combat Vehicles Under \$5M in FY10.

RIFLE COMBAT OPTICS - Handheld binocular used for target detection, recognition and identification.

Exhibit	P-40a, Budget Item Jus	tification	on for Aggre	egated Items			Date:	February 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Communic					P-1 Item Nomen NIGHT VISION I	EQUIPMENT (4930			
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	
PEI Reprocurement	A	D	1.900	1.096	0.000	0.000	0.000	0.000	
		Q	VAR	VAR					
		1							
		-							
					+				
					+				
					+				
					+				
		-							
		1							
		1							
	Totals		1.900	1.096	0.000	0.000	0.000	0.000	
	Active		1.900	1.096	0.000	0.000	0.000	0.000	
	Reserve		0.000	0.000	0.000	0.000	0.000	0.000	
			_		_				

Exhibit P-5 Cost analysis	Procuren (1109) / (ation/ Budget Activity/Soment, Marine Corps 04 Communications tronics Equipment /	P-1 Line Item NIGHT VISIO (493000)			Weapon Sy	vstem Type:		Date: February 2010		
Weapon System		Prior Yrs		FY 09			FY 10			FY 11	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Family of Individual Optics		23135	18376	VAR	VAR	2295	VAR	VAR			
Night Vision Equipment		285768									
Night Vision Modifications		34634	8950	VAR	VAR	8033	VAR	VAR			
Sniper System Capability Sets		33835	24656	VAR	VAR						
Subtotal Baselii	e	377372	51982			10328					
TOT. ACTI' RESER'	/Ε	377372 377372 0	51982			10328 10328 0			0 0 0		

			Exhibit P-	40, Budget Ite	em Justification	on Sheet					Date: Februa	ry 2010
Appropriation / Budget Activit Procurement, Marine Corps (=	nmunications a	and Electronic	s Equipment /-	4630				P-1 Item Nome COMI	enclature: MON COMPU	TER RESOUF	RCES
Program Elements: 0206313M Marine Corps C	Communication	Equipment					Code: A	Other Related	d Program Elen	nents:		
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY2015	TO COMP	TOTAL
Proc Qty												
Gross Cost	769.6	88.4	138.0	258.9	29.4	288.4	212.5	282.9	217.6	187.3	CONT	TBD
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	769.6	88.4	138.0	258.9	29.4	288.4	212.5	282.9	217.6	187.3	CONT	TBD
Initial Spares	0.0	0.0	0.0	1.2	0.0	1.2	7.5	7.6	0.6	0.2	CONT	TBD
Total Proc Cost	769.6	88.4	138.0	260.2	29.4	289.6	220.0	290.5	218.2	187.5	CONT	TBD
Flyaway U/C												
Wpn Sys Proc U/C												
·					•	·						
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

MARINE CORPS COMMON HARDWARE SUITE (MCHS) provides Commercial-Off-The-Shelf (COTS) workstations (desktop/laptop), servers and other Information Technology (IT) hardware to support the Operating Forces and other non-Navy Marine Corps Intranet (NMCI) Marine Corps customers. MCHS provides support for two principal groups: 1) approximately 50 United States Marine Corps (USMC) Tactical and Functional Programs of Record that use COTS IT hardware as part of their fielded systems; and 2) tactical and other Marine Corps customers not supported by NMCI such as Marine Corps Forces, Europe/Marine Corps Forces, Korea and stand-alone Marine Corps units and schoolhouses.

MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS) provides an overarching portfolio of capabilities to deliver "Power to the Edge" for the Marine Corps. Born from an effort to establish a Continuity of Operations Plan of Headquarters Marine Corps (HQMC) Automated Information Systems, MCEITS will realign the existing USMC environment of applications, databases, networks, and facilities into an integrated architecture and programs to deliver new information technology capabilities based on a common infrastructure and shared services. MCEITS is a unifying framework of both the Net-Centric Enterprise Services to be delivered, and the infrastructure and systems which must be deployed to enable delivery of those services. Initially it will encompass the Operational, Technical and Systems architectures of the garrison environment. Ultimately, it will extend to transform Command and Control (C2) both in garrison and in the deployed environment.

Combined with policy, procedure, and standards provided by HQMC Command, Control, Communications and Computers; MCEITS will allow for achievement of architectural standardization, consolidated management, seamless interoperability, and access to the data residing in our currently fielded applications (business and tactical). MCEITS enables access to enterprise information and provides the ability to collaborate and share information across the business and warfighter domains.

Marines.mil is a sub-project under MCEITS that represents the Marine Corps brand as the global public web communications strategy. This effort is the enterprise solution for the centralized management of more than 400 public web sites; delivering news, images, press releases, audio, video, administrative and career related information, products and support services, and Community Relations activities. Marines.mil supports the Commandant's strategic communications initiative providing a means for communicating and engaging with active duty, reserve and retired Marines, as well as their families, civilian Marines and the public. Based on a Commander, Marines Corps Systems Command memorandum dated 19 February 2009, MCEITS will manage the Marines.mil system and be established as the hosting site to include the sustainment of Interim Portal Services.

TOTAL FORCE STRUCTURE MANAGEMENT SYSTEM (TFSMS) is the Marine Corps authoritative data source for force structure data and provider of the Marine Corps Tables of Organization and Equipment. TFSMS defines present and future Marine Corps force structure, establishes the Marine Corps baseline for readiness reporting, justifies resource requirements and allocation and enables Marine Corps compliance with the Joint Staff and Office of the Secretary of Defense initiative to standardize force structure representation by providing the Marine Corps Global Force Management Organizational Server. FY11 funding is needed to provide a Disaster Recovery/Continuity of Operations capability. In addition, funding is required to refresh equipment reaching the end of vendor warranty support (tech refresh). TFSMS is a web-based system built on the Oracle E-Business suite and employs Cognos Report Net Business Intelligence software for the development of standard and ad-hoc queries.

Exhibit P-40, Budget Item Justification Sheet				Date: February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronics Equipment /4630			COMMON COMPU	TER RESOURCES
Program Elements:	Code:	Other Related	Program Elements:	
0206313M Marine Corps Communication Equipment	Α			

MARINE CORPS SOFTWARE ENTERPRISE LICENSE MANAGEMENT SYSTEM (MCSELMS) is a concept of enterprise licensing, embodied by MCSELMS, is based on commercial "best practices" and focuses on reducing total ownership costs. MCSELMS is the USMC implementation of the Department of Defense (DOD) Enterprise Software Initiative (ESI) responsible for managing enterprise licensing contract vehicles for Oracle, Microsoft, Cognos, Red Hat, VMware, Siemens, Adobe, Mercury, Jabber, Circadence, BelArc, and Infonics to include funding for out year maintenance support of the Marine Corps software investment portfolio. MCELMS supports tactical and non-tactical enterprise contracts worldwide in accordance with DOD ESI guidelines by providing firm fixed price enterprise contract vehicles offering competitive pricing and volume discounts.

MARINE CORPS NETWORK OPERATIONS SECURITY CENTER (MCNOSC) operates and defends the Marine Corps Enterprise Network (MCEN) and provides secure network communications for Marine forces worldwide. MCNOSC is the Marine Corps Service Component to the Joint Task Force - Global Network Operations and provides network C2 and operational support to Marine organizations, NMCI, and to deployed and tactical forces. MCNOSC also defends all deployed Marine tactical and garrison networks and supports Marine Corps mainframe applications that are critical to warfighting and enterprise operations. MCNOSC further provides technical support for the DOD-mandated solution for record message traffic and supports the solution for encrypting network communications and authoritatively identifying people and computer resources.

SECURE OPERATIONAL NETWORK INFRASTRUCTURE CAPABILITY (SONIC) provides funding to procure critical infrastructure hardware and software for the secure data network initiatives (Secure Internet Protocol Routing Network (SIPRNET) and related classified networks) needed to sustain and improve critical C2 network operations. This funding enables central management of SIPRNET to ensure enterprise architecture goals and standards are established and maintained and to take advantage of quantity-related discounts.

NEXT GENERATION ENTERPRISE NETWORK (NGEN) is an enterprise network that will provide secure, net-centric data and services to both the Navy and Marine Corps personnel. NGEN forms the foundation for the Department of the Navy's future Naval Network Environment that will be interoperable with other DOD provided Net-Centric Enterprise Services. NGEN will provide funding to transition from the 2010 NMCI environment/capability with no break in service through a continuity of services contract bridge with the NMCI incumbent and other NGEN early transition activities. Beginning in FY11 funding will support the purchase of NMCI contractor owned Information Technology equipment to include all Infrastructure and licenses to use Intellectual Property during the transition phase of the program.

FY11 Overseas Contingency Operations Request (OCO): \$29.4

Funding is required to purchase software and hardware for Tactical Collaborative Work Suite (TCWS) deployments in theatre and to have Net centric capabilities with his battle force. Additional requirements received by the operating forces for chat and collaboration using of Adobe Connect functionality on all suites, Jabber licensing and support, chat/collection, and data replication for displaced operations in support of OEF-A. Target audience is 1st and 2nd Marine Expeditionary Brigades (MEBs). If unfunded, the impact will result in a degradation of the 1st and 2nd MEBs commanders' ability to effectively employ TCWS and provide collaboration, collection and data replication for his forces in theater.

Funds are also intended to replace assets used by deployable forces. Numbers shown are based on a nominal 10% refresh rate on revised T/Es driven by MCCDC AAO reconciliation, soon to be loaded in TFSMS. Any quantities in excess of 10% of displayed AAOs account for various MARSOC and other MARFOR deploying units.

Funds will also provide an in-depth, Computer Network Defense (CND) analysis capability by providing tools that enable critical Battle Damage Assessment of enemy actions against deployed Marine Corps networks in support of OCO. These new forensic tools and equipment allow analysis of network traffic and identification of malicious and unauthorized activity that run well beyond a current network attack. This includes a look at enemy signatures and activities that have occurred from 90 days to two years prior to the date of an attack allowing Marine Corps units to better determine the true nature of enemy actions in the network.

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Exhi	ibit P-	40a, B	Budget Item	Justificat	ion for Ag	gregated It	ems			Date:	February 2010)	
Appropriation / Budget Activity								P-1 Item Nom	nenclature:		-		
Procurement, Marine Co	orps (11	09) / 04	Communicati	ons and Elect	ronics Equipn					COMPUTER R	ESOURCES		
Procurement Items	Code	UOM	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011					
Total Force Structure Management System (TFSMS)	A	D	6.374	0.323	0.000	0.108	0.000	0.108					
Marine Corps Software Enterprise License Management System (MCSELMS)	А	Q D	0.334	0.345	0.000	0.000	0.000	0.000					
		Q											
TOTAL			6.708	0.668	0.000	0.108	0.000	0.108					
Active Reserves			6.708 0.000	0.668	0.000 0.000	0.108 0.000	0.000 0.000	0.108 0.000					

		Appropriation/ B	udget Activity/S	erial No:	P-1 Line Item	Nomenclature:		Weapon Syste	m Type:	Date:	
Exhibit P-5 Cost Analysis		Procurement, Ma Communications /4630			COMMON CO	OMPUTER RES	OURCES			Februa	ry 2010
Weapon System		Prior Yrs		FY09			FY10			FY11	
Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	UnitCost \$	Total Cost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
MARINE CORPS COMMON HARDWARE SUITE (MCHS)											
Tactical and Non-Tactical MCHS Workstations/Servers	Α	1271713	60807	VAR	VAR	33065	VAR	VAR	5951	VAR	VAR
MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS)											
Hardware/Software for Enterprise IT platforms Tactical Collaboration Work Suite (TCWS) Upgrades	Α	27363	4156 16700	VAR VAR	VAR VAR	3473 7900	VAR	VAR	9143	VAR	VAR
MARINE CORPS ENTERPRISE NETWORK OPERATIONS SECURITY CENTER (MCNOSC) MCNOSC NETCOP INFRASTUCTURE (Network Ops,ALTNOSC, and Network Defense)	Α	25509	6033	VAR	VAR	9082	VAR	VAR	2342	VAR	VAR
SECURE OPERATIONAL NETWORK INFRASTRUCTURE CAPABILITY (SONIC)	Α					18193	VAR	VAR	5913	VAR	VAR
NEXT GENERATION ENTERPRISE NETWORK (NGEN) Tech Refresh (Hardware/Software)	Α					66299	VAR	VAR	235490	VAR	VAR
Subtotal Baseline		1324585	87696			138012			258839		
FY11 OCO											
MARINE CORPS COMMON HARDWARE SUITE (MCHS)	Α								17850	VAR	VAR
Tactical and Non-Tactical MCHS Workstations/Servers	Α										
Tactical Collaboration Work Suite (TCWS) Upgrades									7992	VAR	VAR
MARINE CORPS ENTERPRISE NETWORK OPERATIONS SECURITY CENTER (MCNOSC)	Α								3570	VAR	VAR
Subtotal FY11 OCC									29412		
TOTA ACTIV RESERV		1324585 1324585 0	87696 87696 0			138012 138012 0			288251 288251 0		

	Exhibi	t P-40, Bu	dget Item	Justificat	tion Sheet		Date: February 2010						
Appropriation / Budg	et Activity/Seria	al No:					P-1 Item No	menclature:					
Procurement, 04 Ma	rine Corps (110	9) / 04 Com	munications a	and Electror	ics Equipmen	t / 4631		(COMMAND	POST SYS	STEMS		
Program Elements: 0206313M Marine C	orps Communic	cation Equipr	nent	Code:									
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Program	
Proc Qty													
Gross Cost	303.3	144.8	72.7	33.0	36.3	69.3	21.4	79.6	80.1	45.0	Cont.	Cont.	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	303.3	144.8	72.7	33.0	36.3	69.3	21.4	79.6	80.1	45.0	Cont.	Cont.	
Initial Spares	1.5	0.6	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.	
Total Proc Cost	304.8	145.4	90.2	33.0	36.3	69.3	21.4	79.6	80.1	45.0	Cont.	Cont.	
Flyaway U/C													
Wpn Sys Proc U/C													
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont.	Cont.	

Global Command and Control System (GCCS) - Consists of Command and Control (C2) subsystems which provide Combatant Commanders, the Joint Staff and other Tactical Commanders a near real time picture of the battle space necessary to conduct joint and multinational operations of U.S. Military Forces. The FY10 initiative will replace aging GCCS capability with both hardware and software. This will provide for increased capabilities needed to run new software and software upgrades for continued interoperability with Joint forces. FY09 funding includes \$0.500 to procure 130 TCO and 38 GCCS Clients for the Reserve Component.

Tactical Combat Operations System (TCO) - TCO is the principle tool within the Marine Air-Ground Task Force (MAGTF) for situational awareness through distribution of the Common Tactical Picture (CTP). It supports tactical operations providing information via high speed computer systems in a timely manner and includes the Intel Operations Workstations/Servers. Increases in PMC funding are to allow for system refresh and replacements to match the program's acquisition objective. The FY10 initiative will replace aging TCO capability with both hardware and software. This will provide for increased capabilities needed to run new software and software upgrades for continued interoperability with Joint forces.

Advanced Field Artillery Tactical Data Systems (AFATDS) - Consists of fire support C2 software fielded on Marine Corps common hardware. AFATDS provides the MAGTF with the ability to rapidly integrate all supporting arms assets into maneuver plans via a digital link utilizing currently fielded communications equipment. AFATDS automates the fire planning, tactical fire direction, and fire support coordination required to support maneuver from the sea and subsequent operations ashore. The Backup Computer System (BUCS) Block I is a small, portable, Ruggedized Personal Data Assistant (R-PDA) that is capable of performing and displaying artillery survey computations and artillery technical firing solutions, safety computations and serve as a backup for the technical fire direction functions of AFATDS. The Mobile Tactical Shelter (MTS) serves as environmental protection for units operating AFATDS in tactical environments. Changes in funding through FYDP is based on cyclical hardware refresh cycles of all three subcomponents of the AFATDS suite of equipment. In years where cycles are gapped there is a low level of funding. During years where cycles converge there is a high level of PMC support. The AFATDS Program Office will be conducting a complete refresh of AFATDS hardware during the FY09-10 timeframe. Successfully fielding these systems will require new equipment training and robust logistical support for shipping and procurement.

Target Location Designation & Hand-Off System (TLDHS) - Includes the Military Ruggedized Tablet (MRT) and provides the Forward Observer (FO), Forward Air Controller (FAC), Joint Tactical Air Controller (JTAC), and Naval Gunfire Spotter (NGFS) with the ability to observe their area of interest, locate ground targets quickly and accurately, and digitally request and coordinate target engagements by Field Artillery (FA), Close Air Support (CAS), and Naval Surface Fire Support (NSFS). TLDHS will also provide the capability to designate targets for laser-guided munitions and laser spot trackers. The FY10 initiative be utilized for HW refresh and new equipment training for newly fielded systems.

Exhibit P-40, Budget Item	lustificat	ion Shoot		Date:
Eximal F-40, Budget item	Justilicat	ion Sheet		February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item No	menclature:
Procurement, 04 Marine Corps (1109) / 04 Communications	and Electron	ics Equipment / 4631		COMMAND POST SYSTEMS
Program Elements:	Code:	Other Related Program E	lements:	
0206313M Marine Corps Communication Equipment	Α			

Marine Corps Information Operation Center (MCIOC) - The MCIOC supports the MAGTF C2 program providing tactically focused, deployable, Information Operation (IO) support teams who assist in formulating requirements and "reach-across" capability to support joint operations

Blue Force Situational Awareness (BFSA) -The Marine Corps' Situational Awareness family of systems comprised of the Mounted and Dismounted variants of a terrestrial Enhance Position Location Reporting System/Single Channel Ground Airborne Radio Systems (EPLRS/SINCGARS) and the mounted celestial (SATCOM) system.

BFSA/Data Automated Communications Terminal (DACT) - The Data Automated Communications Terminal (DACT) is current Marine Corps' Blue Force Tracking Program of Record. It provides tactical ground tracks below the Marine battalion, and is a primary provider of Position Location Information (PLI) into the Combat Operations Center (COC) and to Joint forces viewing the Common Operational Picture (COP). DACT is one tool in the Joint Combat ID toolbox that the Marine Commander uses to reduce the potential for fratricide. The Mounted Refresh Computer (MRC) (IOC for MRC is planned for May 2010) is the BFT Family of Systems (FoS) based replacement (IAW with JRCOM directed convergence) for the Mounted DACT and consists of militarized central processing unit with Command and Control Compact Edition (C2CE) software (SW) integrated with various tactical vehicle platforms and communications systems through the use of a vehicle Installation Kit (I-Kit). MRC will be mounted in vehicles within the battalion.

BFSA/The Dismounted DACT (D-DACT) - is a smaller, lighter handheld device having greater battery life, consisting of the Rugged Personal Digital Assistant (R-PDA) running C2CE SW. The Dismounted DACT is intended for the dismounted user at the platoon level and below. Capabilities will include enhanced communication paths; near future combined BFSA COP with BFT FoS products via new BFT SW (Joint Capabilities Release (JCR) SW),improved Graphic User Interface (GUI) software, and Selective Availability Anti-Spoofing Module (SAASM) GPS integration.

BFSA/Blue Force Tracker (BFT) - The BFT System is a commerical satellite-based Tracking and Communication System. The USMC was directed to converge to the BFT FoS by JROCM and MROC direction based on recent OIF/OEF lessons learned. The BFT FoS is composed of the BFT, MRC, TOC-kit and BP products. BFT provides the near real time capability to identify vehicle/squad/rotary aircraft position, track progress, and communicate with other operators of these tactical "platforms" in OIF, OEF, other OCONUS operations and CONUS training for wartime deployment.

Combat Operations Center (COC) - AN/TSQ-239 (V)2/3/4 is a deployable, self-contained, modular, scalable and centralized facility which provides digital, shared Command and Control/Situational Awareness functionalities to enhance the Common Operational Picture (COP) for the Command Element, Ground Command Element, Air Combat Element, and Logistics Combat Element. It is a commercial-off-the-shelf integrated hardware solution using unit provided radios, re-hosted tactical data systems, and available Marine Corps prime movers to transport the system. FY09 funds required for hardware refresh for "G" model 2010 upgrades. FY10 funds required for hardware upgrades for MAGTF COC migration and Integrated Logistic Support. This funding is needed to re-equip the OIF systems returning from theatre and upgrading all "E" Model COCs to current "F" Model COCs.

FY11 Overseas Contingency Operations Request (OCO):

Tactical Combat Operations (TCO) TCO is comprised two hardware platforms, the Intelligence Operations Server (IOS) (V)1 and the Intelligence Operations Workstation (IOW) (V)1. IOS (V)1 is the TCO Server hardware platform employing GCCS-J Software. TCO is the principal tool within the MAGTF for situational awareness through the Common Tactical Picture (CTP) and Common Operation Picture (COP). This provides Commanders at all echelons with rapid receipt and data storage of maps and friendly/enemy location. TCO also transmits overlays and plans of intended movement which are displayed on the COP. Request for funds in FY11 will allow an advanced purchase of high level IOS platforms which are required for the successful migration of TCO to the JC2 environment as mandated by DOD Joint Forces. The upgraded servers will continue to perform current functionality, while allowing for additional JC2 capabilities to be added as the program advances. Ihis ensures platform continuity across the FMF, provides the necessary technological upgrades needed to run new software and complies with the DoD mandate of remaining interoperable with other services and the joint community.

Target Location Designation & Hand-Off System (TLDHS) - Procuring an additional 50 TLDHS hand-off systems to be fielded to Expeditionary Warfare Training Groups Atlantic (25 systems) and Pacific (25 systems). This is specialized equipment that is required to support combat operations in OEF and is required to support deployment-specific training. The target location and designation hand off system is the only equipment used by the Marine Corps that gives Forward Air Controllers (FAC) and Joint Terminal Attack Controllers (JTAC) the ability to digitally communicate with Fixed Wing, Close Air Support Aircraft. With the increased use of NATO aircraft in OEF, this system helps to bridge the voice communication gap during Close Air Support missions. The intent is to increase both Expeditionary Warfare Training Groups' Tables of Equipment by 25 additional Military Ruggedized Tablets so that students receive more hands-on training with technologically complex systems prior to deployments into theater. After Action reports from both OEF and OIF highlight the immediate need to improve not only our school-house training, but also our pre-deployment training on the system.

BFSA/Blue Force Tracker (BFT) - The BFT System is a commerical satellite-based Tracking and Communication System. The USMC was directed to converge to the BFT FoS by JROCM and MROC direction based on recent OIF/OEF lessons learned. The BFT FoS is composed of the BFT, MRC, TOC-kit and BP products. BFT provides the near real time capability to identify vehicle/squad/rotary aircraft position, track progress, and communicate with other operators of these tactical "platforms" in OIF, OEF, other OCONUS operations and CONUS training for wartime deployment.

Exhibit P-40a, Budget Item Jus	Procurement, Marine Corps (1109) / 04 Communications and Electronic							February	y 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 04 Communication	ions an	d Electro		P-1 Item No	omenclature	:	Command P		,	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
Marine Corps Information Operation Center (MCIOC)	Α	D Q	0.000	0.548	0.336	0.343	0.000	0.343		
Combat Operations Center (COC)	Α	D	0.000	2.500	0.000	0.000	0.000	0.000		
Totals	Totals 0.00					0.343	0.000	0.343		
Active Reserve			0.000	3.048 0.000	0.336	0.343	0.000	0.343		

Exhibit P-5	Appropriation/ Budget Activity/Serial No Procurement, 04 Marine Corps (1109) / 04 Communications and Electronics Equipment / 4631						P-1 Line Ite	em Nomencla	ture:	Weapon System Typ				
Cost Analysis				109) / 04 C	ommunication	is and	COMM	AND POST S	YSTEMS			Feb	ruary 20	10
Weapon System		Prior Yrs		FY09			FY10			FY11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
GCCS 4.1 System Architecture Refresh		16663	2550	850	3000	1775	546	3250						
4.1 ARCH Set-up, Training & Site Support		13531	1732			2871			2999					
Refresh Various Equipment		296	390	VAR	VAR	2250 460		25000 VAR	4000 588		25000 VAR			
TCO 4.1 System Architecture Refresh 4.1 ARCH Set-up, Training & Site Support Refresh Various Equipment		49 6443	843			772			3712 750 1419	30	25000 VAR			
AFATDS Program Management Mobile Tactical Shelter Integration Hardware Refresh (BUCS) Hardware Refresh (AFATDS) OIF Reset/II MEB Equip Density List		3784 8496 10376	1131 6088			965 6426 6486 2460	215	30168 68350	988 3678 7391		30168			
TLDHS STRIKELINK Systems STRIKELINK Systems Refresh OIF Reset/II MEB Equip Density List Support		25383 2225	2806 1347	102	27505	7701 2107 389	43	27505 49000	3438 485		27505			

Exhibit P-5 Cost Analysis	Procu	opriation/ Budge rement, 04 Ma ronics Equipme	rine Corps (1		ommunication	ns and		em Nomencla AND POST S		Weapon S	ystem Type:	Date: Feb	oruary 20°	10
Weapon System		Prior Yrs		FY09			FY10			FY11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
*BFSA Program Management		7900 32081	1476 4028			1646 6000			1683					
NET/Training/Logistics D-DACT II MEB Equip Density List BFT HW-(JV-5) Refresh		30953	9758		15790	120	12	10000	1547		17000			
BFT II MEB Equip Density List FBCB2-BFT Mounted Kits BFT-II SATCOM Antennas KVG-72 (Type-1, Encryptors)		16075	6368 48000 55200	9600				15850 VAR						
Subtotal Baseline		174255	141717			72371			32678					
FY11 OCO														
TCO Advance IOS Procurement									24381	135	181000			
TLDHS STRIKELINK Systems									1375	50	27500			
BFSA FBCB2-BFT Mounted Kits									10500					
Subtotal FY11 OCC									36256					
TOTAL Active Reserves		174255 174255 0	141717 141717 0			72371 72371 0			68934 68934 0					
		_			_									

Appropriation / Budget Activity/Serial No:		14/								11()
Procurement, 04 Marine Corps (1109) / 04 Communicatio	ns and Electronics Equipment / 4631	vveapon Sys	stem Type:		P-1 Line Item No		re: MMAND POS		February 20	
VBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
GCCS										
Y09 4.1 System Architecture Refresh	SSC Charleston, SC	FFP	MCSC, Quantico, VA	Jan-09	Aug-09	850	3000	Yes	N/A	N/A
FY10 4.1 System Architecture Refresh	SSC Charleston, SC	FFP	MCSC, Quantico, VA	Jan-10	Aug-10	546	3250	Yes	N/A	N/A
- -Y10 Refresh	SSC Charleston, SC	FFP	MCSC, Quantico, VA	Jan-09	Aug-09	90	25000	Yes	N/A	N/A
-Y11 Refresh	SSC Charleston, SC	FFP	MCSC, Quantico, VA	Jan-11	Aug-11	160	25000	No	N/A	N/A
гсо										
-Y11 Refresh	SSC Charleston, SC	FFP	MCSC, Quantico, VA	Jan-11	Aug-11	30	25000	No	N/A	N/A
FY11 OCO	TBD	FFP	MCSC, Quantico, VA	Jan-11	Aug-11	135	181000	No	N/A	N/A
AFATDS										
FY10 Refresh/AFATDS	General Dynamics, MA		Ft Monmouth, NJ	Feb-10	Nov-10	215	30168	N/A	N/A	N/A
FY10	General Dynamics, MA	FFP	Ft Monmouth, NJ	Feb-10	Nov-10	36	68350	N/A	N/A	N/A
FY11 Refresh/AFATDS	General Dynamics, MA	FFP	Ft Monmouth, NJ	Nov-10	Sep-11	245	30168	N/A	N/A	N/A
FLDHS										
Y09 STRINKLINK Systems	Stauder Tech, MO		MCSC, Quantico, VA	Dec-08	Sep-09	102	27505	N/A	N/A	N/A
FY10 STRIKELINK Systems Refresh	Stauder Tech, MO	FFP	MCSC, Quantico, VA	Feb-10	Nov-10	280	27505	N/A	N/A	N/A
FY10 OIF RESET/II MEB EDL	Stauder Tech, MO Stauder Tech, MO	FFP FFP	MCSC, Quantico, VA MCSC, Quantico, VA	Feb-10 Dec-10	Nov-10 Sep-11	43 125	49000 27505	N/A N/A	N/A N/A	N/A N/A
FY11 STRIKELINK Systems Refresh FY11 OCO	Stauder Tech, MO	FFP	MCSC, Quantico, VA	Dec-10 Dec-10	Sep-11	50	27500	N/A	N/A	N/A
BFSA/BFT										
FY09 HW (JV5) Refresh	DRS TDS, Melborne, FL	FFP	Ft Monmouth, NJ	May-09	Dec-09	176	15790	N/A	N/A	N/A
FY09 HW (JV5)	DRS TDS, Melborne, FL		Ft Monmouth, NJ	May-09	Dec-09	442	15790	N/A	N/A	N/A
FY09 BFT-II SATCOM Antennas	TBD	FFP	Ft Monmouth, NJ	TBD	TBD	9600	5000	N/A	N/A	N/A
FY09 KVG-72 (T-1 Encryptors)	TBD		Ft Monmouth, NJ	TBD	TBD	9600	5750	N/A	NA	N/A
FY10 DDACT II MEB EDL	DRS TDS, Melborne, FL	FFP	Ft Monmouth, NJ	Mar-10	Oct-10	12	10000	N/A	N/A	N/A
FY10 BFT II MEB EDL	DRS TDS, Melborne, FL		Ft Monmouth, NJ	Mar-10	Oct-10	1158	15850	N/A	N/A	N/A
FY11 HW Refresh Procurement	DRS TDS, Melborne, FL	FFP	Ft Monmouth, NJ	Mar-11	Oct-11	91	17000	N/A	N/A	N/A
REMARKS:	ı	1	ı			<u> </u>			1	<u></u>

Ex	thibit P-40, Bud	get Item J	ustification	Sheet		Date:			February 20	010		
Appropriation / Budget A	-			P-1 Item Nome	enclature:							
Procurement, Marine Co Equipment / 4633	orps (1109) / 04 Com	munications a	and Electronic					RADIO SY	STEMS			
Program Elements:			Code:	Other Related	Program Ele	ments:						
0206313M Marine Co	orps Communication	Equipment	Α									
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	TOTAL
Proc Qty												
Gross Cost	2774.7	62.8	81.4	40.6	155.5	196.1	48.8	33.9	50.9	38.1		563.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2774.7	62.8	81.4	40.6	155.5	196.1	48.8	33.9	50.9	38.1		563.9
Initial Spares	26.8	3.1	4.4	0.2	0.0	0.2	0.2	0.2	0.2	0.2		
Total Proc Cost	2801.5	65.9	85.9	40.7	155.5	196.3	49.0	34.1	51.1	38.3		565.0
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves												

Legacy Communications/Electronics Modifications and Sustainment: Encompass post production sustainment of fielded tactical communication and networking systems and Service Life Extension Programs (SLEP) of aging communications equipment reaching the end of their life cycle. The post production sustainment provides necessary engineering and logistic support to maintain the existing operational capability above threshold operational readiness. The support provides equipment specialists, configuration management, supply/control support coordination, depot maintenance control, and warranty administration. The AN/TSQ-227 Digital Technical Control (DTC) upgrades are driven by Department of Defense (DoD) mandated interoperability and security requirements, which includes technology insertion and evolutionary equipment improvements.

AN/TRC-170: The AN/TRC-170 is a transportable, self-enclosed troposcatter terminal (multi-channel) capable of transmitting and receiving digital data over varying distances (up to 100 miles). This terminal is comprised of modular electronic equipment in various configurations with Government Furnished Equipment (GFE) multi-plexers and cryptographic items all housed in a modified S-250/G shelter.

Global Broadcast Service (GBS): Provides a worldwide, high capacity, one-way transmission of video, imagery, and other information as required to support joint military forces in garrison, in transit, and in theater. The GBS system will broadcast via communication payloads on a constellation of DoD satellites augmented by leased commercial satellite services. Information (data and video) is collected, organized, and fed to the satellite uplink by fixed or transportable injection points. Services provided by GBS include File Transfer Protocol (FTP), Non-Secure Internet Protocol Router Network (NIPR)/Secret Internet Protocol Router Network (SIPRNET) access, audio and video such as Cable News Network (CNN), and imagery dissemination. GBS consists of space, transmit, and receive segments. The Marine Corps is procuring only the GBS Receive Suite (RS) which is comprised of the Receive Broadcast Manager (RBM) and receive antennas. The RBM consists of a microcomputer, monitor, Integrated Receive Decoder (IRD), and KG-250 cryptographic equipment. The RS receives information from the transmit segment, decodes it and then distributes the information to users. The Marine Corps is purchasing both the fixed station RS and the transportable RS.

Tactical Communications Modernization (TCM): Procures state of the art radio systems (IISR, PRC-117, PRC-150 and PRC-148) as interim solutions to Joint Tactical Radio System (JTRS) products which are presently in development but not available for immediate procurement in response to wartime requirements. The current TCM program schedule and budget profile for TCM: (1) has replaced legacy radio systems at or past the end of their service life, (2) is modernizing tactical radio capabilities consistent with JTRS, and (3) is "resetting the force" to effectively meet any post- Operation Iraqi Freedom (OIF) or Operation Enduring Freedom (OEF) threat. TCM also includes the High Frequency ManPack AN/PRC-150 long-haul communication radio system, and the Enhanced Position Location Reporting System enabling wireless point to point and mesh networking for MS chat, position location reporting, and standard message formatting capability to Marine Division units.

Exhibit P-40, Budget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	, 55,50,
Procurement, Marine Corps (1109) / 04 Communications and Electronic Equipment / 4633		RADIO SYSTEMS

Joint Tactical Radio System (JTRS): provides a family of software-programmable and hardware configurable radio systems that will deliver unprecedented interoperability and operational flexibility to support the varied mission requirements of the warfighter. The Marine Corps' initial procurement investment in the JTRS product line will be the procurement of the Ground Mobile Radio (GMR) system as a multi-channel, vehicle-mounted radio system. Procurement of Low Rate Initial Production (LRIP) items occurs in FY10 and FY11, and these items will support vehicle integration efforts on a variety of USMC platforms, such as the Expeditionary Fighting Vehicle (EFV). In FY11 the Marine Corps will commence LRIP procurement of a 2-channel manpack radio system that provides Mobile User Objective System (MUOS) capability. MUOS is the next-generation of Tactical Satellite (TACSAT) communications technology based on a new constellation of satellites. Timely procurement of the MUOS capability is vital for the Marine Corps to fill what would otherwise be a mission-critical gap in tactical radio communications for beyond-line-of-sight command and control voice/data nets.

Enterprise Land Mobile Radio (ELMR): provides a modern, digital, trunked radio system at all bases, posts and stations across the Marine Corps. It will provide coverage both mainside and in training areas to provide positive command and control over training units. It will also provide a safety of life and safety of flight system that enables emergency personnel to respond to problem during normal, crisis, and recovery operations.

There are three capability objectives for the initial procurement and installation of ELMR systems:

- (1) First Responder Capability/Interoperability. In the wake of 9/11, it was recognized that effective emergency communications is a key element in providing homeland security while reducing the loss of life in any crisis or incident.
- (2) Compliance with the Federal Communications Commission (FCC) Narrowbanding mandate for Land Mobile Radio (LMR) frequency spectrum management. Failure to meet this 1 Jan 08 deadline has already forced training "shut downs" at critical pre-deployment training bases and events.
- (3) Provide operational capabilities to reset, expand, and modernize the deficient LMR infrastructure which is inadequate to fully support the warfighters' security, safety, and overall combat effectiveness.

The ELMR capability will be achieved through two procurement efforts.

- (1) Subscriber Units: Procurement of the radio systems for personnel and vehicles.
- (2) Infrastructure: Procurement of ELMR tower and networking infrastructure that allows for radio trunking, remote operations, monitoring, and Continuity Of Operations (COOP).

Procurement and installation of ELMR subscriber units and infrastructure will be executed incrementally -- addressing one or several bases each year in order to deliver an immediate 100% "turnkey" solution for the base(s) funded that year.

Command-and-control, On-the-move, Network, Digital, Over-the-horizon, Relay (CONDOR): procures systems that will allow tactical forces to extend units Beyond Line-of-Sight (BLOS) while maintaining friendly and enemy locations and posture by maintaining data network connectivity over great distances while On-the-move (OTM).

Very Small Aperture Terminal (VSAT): Procurement of the Ka upgrade for VSAT terminals is a one-time investment across the entire inventory of VSAT terminals. This upgrade provides access to more economical government-owned Ka bandwidth. Migration to Ka bandwidth from the current commercially-owned Ku bandwidth would eliminate commercial satellite access fees. Furthermore, use of Ka bandwidth mitigates any risk associated with commercial management of Ku bandwidth during a crisis period.

Exhibit P-40, Budget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 04 Communications and Electronic Equipment / 4633		RADIO SYSTEMS

Lightweight Multiband Satellite Terminal (LMST): Phoenix Tactical SHF Satellite Terminal (TSST): LMST and Phoenix are quad-band Super High Frequency (SHF) satellite terminals that provide wideband communications capabilities. Systems have similar capability sets. LMST can be employed in a transit case configuration or mounted on High Mobility Multi-Purpose Wheeled Vehicles (HMMWVs). Phoenix terminals are permanently mounted on HMMWVs. These terminals provide the primary communications link between deployed forces and Satellite Tactical Entry Points (STEP) and Teleports.

Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T): The Secure, Mobile, Anti-jam, Reliable, Tactical-Terminal (SMART-T), provides tactical users with protected data & voice Extremely High Frequency (EHF) satellite communications. The SMART-T system is transported on High Mobility Multipurpose Wheeled Vehicles (HMMWVs) providing MAGTF commanders a secure, survivable, long-haul, low/medium data rate communications link not subject to terrain masking and horizon limitations. The SMART-T is also capable of operation if removed from the HMMWV. Improvements to use Advanced EHF (AEHF) satellites and the extended data rate (XDR) waveform are planned in the near future. The upgraded SMART-T will be nomenclatured as the AN/TSC-154A.

Tactical Elevated Antenna Mast Systems (TEAMS): A single HMMWV (Hight Mobile Multi-purpose Wheeled Vehicle) mounted 100' telescoping antenna mast replacing the two AN/MRC - 142 50' antennas. TEAMS procides a safer more efficient mast to allow up to twice the current height capability to overcome obstructions caused by overhead anopy and obstructing ridges which minimizes the the need to set up additional relay sites as well as ship to shore communications. TEAMS will support any antenna.

Blue Force Situational Awareness (BFSA): The Maine Coprs' Situational Awareness family of systems comprised of the Mounted and Dismounted variants of a terrestrial Enhance Position Location Reporting System/Single Channel Ground Airborne Radio Systems (EPLRS/SINCGARS) and the mounted celestial (SATCOM) system.

FY11 Overseas Contingency Operations Request (OCO):

Defense Advanced Global Positioning System (GPS) Receiver (DAGR) provides the warfighter with anti-spoofed navigation and timing information. The recent MEB deployment to OEF required 574. These had to be sourced from other efforts. MCSC fields frequent requests from the MARFORS for GPS, and due to contracting issues can only place orders twice a year, so some units do not receive this capability for up to 12 months. This request would fund replenishment, which MCSC could perform within 12 months.

AN/TRC-170 provides the warfighter with a line-of-sight and beyond-line-of-sight communications capability. The current system is a HMMWV mounted shelter that requires a waiver to deploy, since it exceeds weight restrictions when armored. The mounted shelter contains several critical items that require constant maintenance (at increasing cost to the warfighter) and are reaching end of life. This request will fund a new antenna trailer that will house these critical components, in turn replacing the shelter, reducing manpower, and enabling faster operator set-up/tear-down time. MCSC can deliver this trailer within 12 months of funding. Additional requirement for perform acceptance testing, training, TMs, log support analysis, etc.

2 FSR to support High Frequency and Multi-band Harris radios in theater. Funds 2 FSR to support PM-Toc for the intercoms in theater with FSR Team.

Present MRAP intercom systems were purchased without logistics support package. Sustainment of these systems would require equipment refresh to ensure combat capability. Without use of intercom systems drivers and gunners will not be able to communicate.

IISR headsets are used with the IISR radio. These headsets provide hands-free communications and eardrum protection from rifle fire and explosion. Anticipating approximately 500 of the 1500 IISR headsets (33%) in theater will need to be replaced. Marines will face a shortfall of headsets and be required to use the radio alone, forcing them to manually key the radio or exposing them to hearing loss.

Lightweight Multiband Satellite Terminal (LMST) has been deployed in OIF since the start of operations. The LMST provides the commander with the means to exchange mission critical information, including video over a satellite communication network. The terminals have been in constant use so will require extensive refurbishment from their long deployment. Marine Corps Systems Command (MCSC) is upgrading LMST terminals to Kaband during FY09, which will enable operations on the new Wideband Global SATCOM constellation in the Ka frequency band. MARCENT has cancelled the OIF terminal upgrades because of operational tempo, so they will not be upgraded until they return to CONUS in FY10. This request provides funding for that upgrade, and in turn enables MCSC to maintain configuration control while providing the warfighter increased mission critical data exchange. MCSC can deliver these upgrades within 12 months of funding.

Global Broadcast System (GBS) provides the tactical commander with large quantities of mission critical data, including UAV video. The system is highly mobile due to its compact size. This request would fund these low density high demand items in support of the MARSOC in OEF/OIF due to increased Optempo and small unit ops conducted by them requiring this connectivity. MCSC can deliver these JIPM-capable systems within 12 months of funding.

Support Wide Area Network (SWAN) is a satellite communications terminal with a network package that provides tactical commanders at the Battalion and above echelons with the means to exchange mission critical information beyond-line-of-sight, including video. Deployed SWAN terminals have been in use for several years. Many of the systems have suffered excessive wear and tear and are in need of replacement. MCSC can deliver these refits within 12 months of funding.

Joint Internet Protocol Modem (JIPM) is a GBS-upgrade which enables tactical commanders to receive greater quantities of mission critical information (including UAV video). The existing GBS systems will require this capability in order to enable and participate in COCOM broadcasts. MCSC can upgrade the remaining 81 systems within 12 months of funding. GBS terminals have a high demand for use by MARSOC and other opfors.

Range Land Mobile Radio (RLMR) repeater system currently consists of four repeater sites. The four Radio Frequency (RF) Repeater sites provide radio users with access to six trunked repeater channels at three remote sites and nine repeaters. A radio user within the RF coverage area of any of the four repeater sites can initiate a trunked radio call within a single repeater site's coverage area and/or to radio users located in the collective wide-area RF coverage of the four repeaters sites. Increasing the number of repeater sites and increasing the number of repeater located at the current and proposed expansion sites shall greatly enhance operational Safety Posture for all personnel in Marine Corps Air Ground Combat Center (MCAGCC) ranges reliant upon the RLMR system for repeated radio communications.

Exhibit P-40

Exhibit P-40a, Budge	t Item Jus	tificat	tion for Agg	regated Ite	ems		Date:		Februar	v 2010	
Appropriation / Budget Activity					P-1 Item N	lomenclature	e :		. obraa.	, 20.0	
Procurement Marine Corps (1109)/ 04 Commun	ication and E	lectron	ics Equipment	/ 4633				RADIO S	SYSTEMS		
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011			
Lightweight Mult-Band Satellite	A	D	0.000	1.413	1.350	1.464	3.167	4.631			
Global Broadcast Service	Α	D	14.845	0.699	0.000	0.000	0.000	0.000			
DAGR	А	D	0.000	0.000	0.000	0.000	3.730	3.730			
MRC-142	Α	D	0.000	0.000	0.000	0.000	4.950	4.950			
EPLRS	А	D	0.000	0.000	2.263	0.000	3.257	3.257			
TEAMS	А	D	0.000	0.000	0.000	0.000	3.700	3.700			
Blue Force Tracker	А	D	0.000	0.000	0.000	0.000	0.048	0.048			
т	OTAL		14.845	2.112	3.613	1.464	18.852	20.316			

Exhibit P-5		Appropriatio	n/ Budget Ac	tivity/Serial I	No:		P-1 Line Item	Nomenclature:		Weapon Syste	m Type:	Date:		
Cost Analysis			Marine Corps		ommunication	and		Radio Systems					ebruary 201	0
Wagnen System	1	Prior Yrs	quipment / 463	FY 09			FY 10			FY 11				
Weapon System Cost Elements	CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$			
Baseline														
Tactical Communications Modernization														
Vehicle Mounted Radios														
AN/PRC-152	Α	13861				1772	VAR	TBD						
UHF/VHF AN/PRC-117(AN/VRC 103)	Α	62267	4903	161	30454	4600	VAR	TBD						
MBR AN/PRC-117F						7500	VAR	TBD						
THHR (PRC-152/PRC-148						3000	VAR	TBD						
Tactical Handheld Radio	Α	2310												
Integrated InterSquad Radio (IISR)	Α	20.0	8750	3500	2500									
AN/PRC-150	Α					1287								
THHR COMSEC Upgrade	Α					10395	VAR	TBD	2724	VAR	TBD			
MBR COMSEC Upgrade	Α					9149	VAR	TBD	5918	VAR	TBD			
HFR COMSEC Upgrade	A	10430	4113			5422 10511	VAR	TBD	721 577	VAR	TBD			
Contract Management & Engineer Support Spares	A	10430	4113			10311			3//					
Spares	ļ , ,	10010												
Joint Tactical Radio System														
Manpack Radio Systems (2-channel)	Α								7134	50	142680			
Ground Mobile Radio (GMR) Systems	Α					4350	9	483333	13387	30	446233			
Legacy Communication Electronics														
DTC SLEP support	Δ		2036											
DTC TECHCON Tool Kits	A		2030			2003	VAR	TBD						
TRC-170 Logistics Support	Α		2000			2003	*****	.55	1826					
DTC-R Refresh	Α								1877	VAR	TBD			
Subtotal Baseline		99686	21802			61992			34164					
Oubtotal Baseline		00000	2.002			0.002			0					
FY11 OCO														
Tactical Communications Modernization	١.													
Tactical Handheld Radio FSR Support	A								4000					
Universal Remotes for Tactical Radios	Â								22400	VAR	TBD			
MBR COMSEC Upgrade	Α								12770	VAR	TBD			
Legacy Communication Electronics														
Comsec Cable KIV-7M	Α								6418	VAR	TBD			
TRC-170 Obsolescence Upgrade	Α								21087	VAR	TBD			
Subtotal FY11 OCO									66675					
Total		99686	21802			61992			100839					
Active		99686	21802			61992			100839					
Reserves		0	0			0			0					

Exhibit P-5		Appropriation					P-1 Line Iten			Weapon S	System Type:	Date:		
Cost Analysis		Procurement I Electronics Eq			mmunication a	ind	R	adio Systems	5			F	ebruary	2010
Weapon System		Prior Yrs		FY 09			FY 10			FY 11				
Cost Elements	ID CD	Total Cost	Total Cost	Qty Each	Total Cost	Total Cost	Qty Each	Total Cost	Total Cost	Qty Each	Total Cost \$000			
		\$000	\$000	, ,	\$000	\$000	*	\$000	\$000	-				
Baseline														
Very Small Aperture Terminal Very Small Aperture Terminal	Α	48000												
Comsec Equipment	Α	600												
Logistics/Fielding Support	Α	13000				20								
Wireless Point to Point (WPPL)	Α													
VSAT Ka Terminal Upgrade Program Support Logistics, Training FSR						9487	136	69758						
1 Togram Support Logistics, Training 1 Six														
Enterprise Land Mobile Radio (ELMR)														
Project Office Support MCAS Yuma, infrastructure upgrade	A A	46000	1200	VAR	VAR	4000	\/A.D.	\/A.D.	4000	\/AB	1/45			
MCAS Beaufort, infrastructure upgrade	A		6270 6270	VAR	VAR	4898	VAR	VAR	4923	VAR	VAR			
MCI East, Regional RF subsystem	Α		3100	VAR	VAR									
MCI West, Regional RF subsystem	Α		3100	VAR	VAR									
Contract Management & Engineer Support MCI East Radio Infrastructure	A A		4365											
C2 On-the-Move Network Over-the Horizon														
Relay (CONDOR)														
Project Office Support WIN X LRIP Systems	A A	400	4832 3516	VAR	VAR									
WINV X LIVII Oystems	A		3316	VAN	VAR									
SMART-T UPGRADES														
Upgrades SMART-T Terminals (AN/TSC-154)	Α		5895	9	655000									
Program Support	Α	2458	370			545								
Tactical MPSS Ancillary Equipment	A A	498				881	31	28406						
Subtotal Baseline		110956	38918			15831			4923					
<u>FY11 OCO</u>														
Very Small Aperture Terminal														
Comsec Equipment	Α								500	VAR	VAR			
CISCO/IA Support	Α								3300					
Program/Fielding Support	Α								4178					
Tech Refresh	Α								2000	VAR				
SWAN equipment and services	A								8100 6700	VAR VAR				
WPPL equipment and services	А								6700	VAR	IBD			
Enterprise Land Mobile Radio (ELMR)														
Project Office Support									700					
Engineer Support									4940		_			
Camp Pendleton Infrastructure									8500 16400	VAR VAR				
Camp LeJeune Infrastructure Blount Island Infrstructure									4700	VAR				
Beaufort Infrastructure									10000	VAR				
Subtotal FY11 OCO									70018					
Subtotal F111 OCO									,,,,,,					
Total		110956	38918			15831			74941					
Active		110956	38918			15831			74941					
Reserves		0	0			0			0					

E	xhibit P-5a, Budget Procureme	ent Histo	ry and Planning					Date:	ebruary 20	010
Appropriation / Budget Activity/Serial No: Procurement Marine Corps (1109) / 04 Communication and E		Weapon S	ystem Type:		P-1 Line Ite	m Nomeno	clature: Radio Syste		20.00.7 20	,,,
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFF Issu Date
FY09 Vehicle Mounted Radios Integrated InterSquad Radios (IISR) Mounted Radio System FY11	lotorolla	FFP	MarCorSysCom	Dec-08	Feb-09	3500	2500	Y	NA	NA
	eneral Dynamics Scotsdale AZ oeing, Anaheim, CA	FFP FFP		Feb-11	Nov-11 TBD	50 30	142680 446233	Y	NA NA	NA NA

Ex	hibit P-5a, Budget Procureme	ent History	y and Planning					Date:	ebruary 20)10
Appropriation / Budget Activity/Serial No: Procurement Marine Corps (1109) / 04 Communication	and Electronics Equipment / 4633	Weapon S	System Type:		P-1 Line I	tem Nome	nclature: Radio Syst	tems		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type		Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY10 VSAT Ka-band Upgrade	TBD	FFP	MarCorSysCom	Feb-10	May-10	136	69758	Υ	NA	NA
<u>SMART-T Terminal Upgrade</u> FY09 Upgrades SMART-T Terminals (AN/TSC-154)	Raytheon Corp, Largo FL	FFP	CECOM	Mar-09	Jun-09	9	655000	Y	NA	NA
Remarks										

				EXHIB	IT P-21	, PRODU	СТІОІ	N SCI	HEDU	LE										Date:					Febru	uary 2	010				
Appropriation Code/CC/BA/BSA/Item C Procurement, Marine Corps (1109) / 04		cation a	nd Ele	etronice E	auinmen	+ / 4633	Weap	on Syst	tem					P-1 Ite	m Nor	nenclat	ture:				D	NDIO S	SYSTE	MC	. 02.0	.u., 2	0.0				
1 Tocurement, Manne Corps (1109)7 04	Communi	cation a	ilia Lie	CHOINGS L	.quipinien	17 4033		PRC	DUCT	ION F	ATF					PRO	OCURE	-MEN	TIFA	DTIM		ADIO S	ISIE	IVIS	ı						
ITEM	Manufactur	er's NAM	IE / LOCA	ATION			М	SR		ON		AX		T Prio Oct 1	r to		After (Initial Ifg PL		Reo	rder PLT			TO	ΓAL		Unit	of	Measure
IISR	UNKNOW	/N					10	000	15	600	20	00					2			2							1		ea		
JTRS Manpack Radio Systems (2 channel)	General D		Scotsd	dale AZ			_	5		0		5					4			9						1	3		ea		
UPGRADE SMART-T TERMINAL	Raytheon	Corp, La	argo, FL	-				1		4		В					5			3						8	3		ea		
VSAT KA-Band Updgrade	General D	ynamics	s, Richa	rdson, TX			1	10	1	4	2	0					10			1						1	1		ea		
												/ O											Fi-	17-	000						R
										<u>'</u>	ISCAL	ear 20	JU8	Cale	endar	Year 20	008						FIS	cal Ye	ar 200 ilenda		r 2009	9			A L
		F	S V	Q T	D E	B A	O C T	N O V	D E	J A	F E	M A	A P	M A	J	J	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	Ŋ	Ŋ	A U	S E	N C E
ITEM			С	Y	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	В	R	R	Υ	N	L	G	Р	
IISR		FY09		3500	0	3500															Α		1500	1000	1000)					
UPGRADE SMART-T TERMINAL		FY09	MC	9	0	9																		Α			4	4	1		
																							<u> </u>	L	L						0
						<u> </u>					iscai	ear 20)10	Cale	endar	Year 20	010						FIS	cal Ye	ar 201 Ilenda		r 2011	1			A L
		F Y	S V	Q T Y	D E	B A	O C T	N O V	D E	J A	F	M A	A P	M A	J	J	A U	S E P	O C T	N O V	D E C	J A	F	M A	A P	M A	J U N	J	A U G	S E P	A N C E
ITEM			С		L	L	'	V	С	N	В	R	R	Υ	N	L	G					N	В	R	R	Υ	N	L	G	Р	
VSAT KA-Band Updgrade		FY10		136	0	136					Α			14	14	14	14	14	14	14	14	14	10								
JTRS Manpack Radio Systems (2 chan	nel)	FY11	MC	50	0	50	<u> </u>																Α								50
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						<u> </u>								Cale	endar	Year 20	012								lenda		r 2013	3			A L A
		F	S	Q	D	В	0	N	D	J	F	M	Α	М	J	J	Α	S	0	N O	D	J	F	М	Α	М	J	J	Α	S	N C
ITEM		Y	V C	T Y	E L	A L	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E
JTRS Manpack Radio Systems (2 chan	nel)	FY11	МС	50		50		10	10	10	10	10																			0
																										1	1				
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		Exhibit I	P-40, Budget	Item Justifica	ation Sheet				Date:	Februa	ary 2010	
Appropriation / Budget Procuren	Activity/Serial No: nent, Marine Corps	(1109) / 04 Coi	mmunications :	and Electronic E	quipment / 463		P-1 Item Nom		inication Switch	ing and Contro	I Systems	
Program Elements: 0206313M M	arine Corps Comm	unication Equip	ment	Code: A		Other Related F	Program Eleme	ents:				
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												0.0
Gross Cost	839.6	64.4	94.0	32.3	63.3	95.6	9.8	26.2	49.2	41.6		1220.5
Less PY Adv Proc												0.0
Plus CY Adv Proc												0.0
Net Proc (P-1)	839.6	64.4	94.0	32.3	63.3	95.6	9.8	26.2	49.2	41.6		1220.5
Initial Spares	5.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.9
Total Proc Cost	845.0	64.9	94.0	32.3	63.3	95.6	9.8	26.2	49.2	41.6		1226.4
Flyaway U/C												0.0
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Joint Communications Support Equipment (JCSE): Funds the Marine Corps share of efforts to keep the JCSE equipped with the latest state-of-the-art equipment to accomplish its Joint Staff Mission.

Expeditionary Command & Control Suite (ECCS): A transit case solution that provides Secret Internet Protocol Router Network (SIPRNet) email and web access, secure Video Teleconference (VTC), Command and Control Personal Computer (C2PC), and collaborative planning with the Defense Information Systems Agency (DISA) Standard to initial response teams to communicate with higher HQ until larger Command and Control (C2) systems are established. This is an On-The-Move/Enroute Capability.

Communications Security (COMSEC): Supports Marine Corps interface requirements in a timely and cost effective manner. A continuous emerging requirement to provide the FMF (Fleet Marine Force) with new ancillaries and cable interfaces for interconnection between COMSEC devices and MAGTF C4I systems. C4I IT (Information Technology) Network Security systems. C4IAD (Air Defense) systems, and other systems with interface requirements for stand-alone COMSEC devices during acquisition, implementation, fielding and life cycle.

Tactical Data Network (TDN): Augments the existing MAGTF communications infrastructure to provide the commander an integrated data network, forming the communications backbone for Tactical Data Systems (TDS) and the Defense Messaging System (DMS). TDN consists of Gateways (AN/TSQ-222) and Data Distribution Systems (DDS) (AN/TSQ-228), interconnected with one another and their subscribers via a combination of common user long-haul transmission systems, local area networks (LAN), and switched telephone systems. The TDN PIP provides a smaller and more mobile variant of DDS for the Battalion, Secure Wireless LAN capability for enhanced mobility, integrates security interdiction products into the Gateway, and provides critical refresh of non-Marine Common Hardware Suite (MCHS) network components such as routers, switches, converters, and peripheral tactical gear.

Warfighter Network-Tactical (WFN-T): WFN is a portfolio of systems of tactical network programs. Tactical Data Network (TDN) and First In Command and Control (FICCS) program acquisition rolls up to Warfighter Network in FY 2010. WFN-T will provide a standard data and voice architecture for voice, Secret Internet Protocol Router Network (SIPRNet), Non-Classified Internet Protocol Router Network (NIPRNet), coalition, data, and video services that is interoperable with Joint communications systems. Specifically, it provides interoperability with Defense Information Systems Agency (DISA) net-centric Global Information Grid (GIG) convergence architecture, provides network optimization (accelerators) to best utilize precious satellite and terrestrial bandwidth, replaces copper and fiber optic cable infrastructure assemblies that are outdated, provides Voice over Internet Protocol (VoIP) that efficiently shares the IP transport data, and provides Multi-level security cross domain solutions mandated by the DISA GIG IP convergence (black core).

Transition Switch Module (TSM): A replacement for the Unit Level Circuit Switch (ULCS) family of equipment. It will provide a flexible Unit Level Switch that bridges legacy Tri-Tac switches with current commercial technology to provide Marine maneuver elements with a more robust voice/data switching, data transport and bandwidth management capabilities. This program will maintain United States Marine Corps (USMC) joint interoperability as all Services transition to Commercial Off-The-Shelf (COTS) switching technologies, Government Off-The-Shelf (GOTS), and Non-developmental Items (NDI) Technical Control and ancillary equipment. The shelter houses a facility management terminal, patch panels, multiplexers, modems, circuit switches, test equipment, Communication Security (COMSEC) equipment, and miscellaneous support equipment.

FY11 Overseas Contingency Operations Request (OCO): \$63.3M

Required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan. These items are specialized equipment necessary to accomplish assigned missions in Afghanistan theater of operations.

Warfighter Network-Tactical (WFN-T): FY11 OCO funding will be used to procure Data Distribution Systems (DDS).

Commercialization of Communication: This is part of an overall strategic plan to commercialize communications nodes which directly support OpForces in support of OEF. This includes Main Distribution Frame, Network Plant, Central Microwave System, Telephone Switching equipment, and system integration. This is for required modifications to equipment used in theater in direct support of combat operations.

Exhibit P-40a, I	Budge	t Item .	Justification f	or Aggregate	d Items			Date:		February 2010	
Appropriation / Budget Activity: Procurement, Marine Corps (1109) / 04 Communications and El	ectronic	Equipme	nt / 4634			P-1 Item Nomeno	clature:	Communicatio	n Switching and	Control Systems	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011			
Joint Communications Support Equipment (JCSE)	Α	D	3.483	0.434	0.422	0.415	0.000	0.415			
Total			3.483	0.434	0.422	0.415	0.000	0.415			
Active Reserves			3.483 0.000	0.434	0.422	0.415	0.000	0.415 0.000			
Nesei ves				- 700			1 000				

	Α	appropriation/ Bud	dget Activity/Se	rial No:	P-1 Line Item N	omenclature:		Weapon Syster	n Type:	Date:	
Exhibit P-5 Cost Analysis		Procurement, Mar Communications a		9) / 04 Equipment / 4634	Communication Systems	on Switching	and Control			Febi	ruary 2010
		Prior Yrs		FY 2009			FY 2010			FY 2011	
	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$
<u>Baseline</u>											
Expeditionary Command and Control Suite (See Note 1) Base Stations Deployable Systems (RRK) Deployable Systems (Cmdr Kit) Modification Kits Remotes Modification Kits Base Stations Satellite Bandwidth Program Management Support ILS/Contractor Support/Training/Tools First Article Test			625			355 4335 1862 1720 542 1050	2 17 14	255000	3060 1995 1609 650 994	12 15	
COMSEC CABLE Simple Key Loader (SKL) KOV-21 CE Secure Telephone Equipment (STE) ECC OMNI XI Data STE KG-175 KIV-7M Program/Fielding Support Subtotal Baseline		12676 1825 18698 1950 3570 8514 2650 8491 58374	3566 4191			829 10693			822 9130		

Exhibit P-5 Cost Analysis	Proc	opriation/ Budget urement, Marine (munications and I	Corps (1109) / 04		P-1 Line Item N Communication Systems	Nomenclature: n Switching and	I Control	Weapon Syste	m Type:	Date: Febru	uary 2010
		Prior Yrs		FY 2009			FY 2010			FY 2011	
Weapon System Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$
Baseline Tactical Data Network (See Note 1) DDS File Server Software		8500									
Program Support		3100	1679								
TDN Gateway Data Distribution System (DDS) Upgrades		94 30500	17414	VAR	VAR						
Transition Switch Module (TSM) Deployable Integrated Transport Suite (DITS) Deployable End Office Suite (DEOS) Remote Subscriber Access Module (RSAM) TSM Increment I Upgrades TSM Increment II Upgrades TSM Increment III Upgrades Program/Fielding/ILS/Training		37525 118872 56443 12531 1008	1564 6487 7785 2458	VAR VAR VAR	VAR	7236	VAR	VAR	1850		
Warfighter Network Network Optimiz (Accelerator) TDN VoIP Mod Kits (TSM D) Data Distribution System (DDS) Program/Fielding/ILS/Training Subtotal Baseline		309682	22400 59787	VAR	VAR	11106 6133 30544 1439 82898	VAR VAR	VAR VAR VAR	19840 1044 22734		VAR
FY11 OCO Warfighter Network Data Distribution System (DDS)									10500	VAR	VAR
Commercialization of Communication									52780	VAR	VAR
Subtotal FY11 OCO									63280		
Total Active Reserves		313873 313873 0	63978 63978 0			93591 93591 0			95144 95144 0		

	Exhibit P-5a, Budget Procuren	nent Histo	ry and Planning					Date: February	/ 2010	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 04 Communicatio	ns and Electronic Equipment / 4634	Weapon S	ystem Type:			em Nomer	nclature: ching and Cont	trol Syste	ms	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Expeditionary Command and Control Suite										
(ECCS)										
FY10 BASE STATIONS DEPLOYABLE SYSTEMS, RRK DEPLOYABLE SYSTEMS, Cmdr Kit FY11 DEPLOYABLE SYSTEMS, RRK DEPLOYABLE SYSTEMS, Cmdr Kit	TBD TBD TBD TBD TBD	FFP FFP	MCSC, Quantico VA MCSC, Quantico VA MCSC, Quantico VA MCSC, Quantico VA MCSC, Quantico VA	Jun-10 Jun-10 Jun-10 Jun-11 Jun-11	Oct-10	17	133000 255000	Y Y	NA NA NA NA	NA NA NA NA
REMARKS:										

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Appropriation Code/CC/BA/BSA/Item Co							Wea	apon S	Syste	m				P-1 I	tem	Nome	encla														
Procurement, Marine Corps (1109) / 04	Communicati	ons an	d Elect	ronic Ed	quipment	/ 4634	_																hing	and	Con	trol S	/sten	าร			
							Р	ROD	UCT	ION	RAT	ΓE						MEN													
ITEM	Manufactu	ırer's N	NAME /	LOCAT	ION		М	SR	EC	ON	M	AX		Γ Pric Oct 1		ALT	Aftei 1	r Oct		Initial fg PL			Reord Ifg P			TC	TAL		Unit Mea	of sure	
ECCS Base Station	TBD							2	:	3		4					9			4			4		t		13		E		
ECCS Deployable System, RRK	TBD						1	2	1	2	2	4					9			4			4		t		13		Е		
ECCS Deployable System, Cmdr Kit	TBD							2	1	2	2	4					9			4			4		t		13		Е		
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ITEM		Υ	C	T Y	E L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U	U L	G	E P	C T	V	E C	A N	В	A R	P R		U N	L	G	E P	E
ECCS Base Station		10	MC	2	0	2									Α				2												0
ECCS Deployable System, RRK		10	MC	17	0	17									Α				3	4	4	4	2								0
ECCS Deployable System, Cmdr K	it	10	MC	14	0	14									Α				4	5	5									oxdot	0
ECCS Deployable System, RRK		11	MC	12	0	12	_			\sqcup									Щ						1	1	Α	_	_	Ш'	12
ECCS Deployable System, Cmdr K	ut	11	MC	15	0	15																					Α				15

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ITEM	Manufactu	urer's 1	NAME .	/ LOCAT	ΓΙΟΝ		M	SR	EC	ON	M.	AX		Oct 1		ALI	1	Oct		fg PL			lfg Pl			то	TAL		Unit Mea		
ECCS Base Station	TBD							2		3		4					9			4			4				13		Е		
ECCS Deployable System, RRK	TBD							2	1	2	2	24					9			4			4			•	13		Е		
ECCS Deployable System, Cmdr Kit	TBD							2	1	2	2	24					9			4			4				13		Е		
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ITEM			С	Υ	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
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		_	S	Q	D	В	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	A N C
		F Y	v C	T	E	Ā	C	0 V	E C	A N	E B	A R	P R	A	U	U	U	S E P	O C T	0 V	E C	A N	E B	A R	P R	A	U	U	U	E	C E
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		Exhibit P	-40, Budge	t Item Justific	ation Sheet			Date:		February 201	0	
Appropriation / Budge	et Activity/Serial	No:				P-1 Item Nomeno	clature:					
Procurement, Marine	Corps (1109) / 0	04 Communio	ations and El	ectronics Equipme	ent / 4635			COMM & ELE	C INFRASTRUC	TURE SUPPOR	Т	
Program Elements:				Code:	Other Related Progra	m Elements:						
0206313M M	arine Corps Commu	inication Equipm	ent	Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	TO COMPLETE	TOTAL
Proc Qty					1	1						
Gross Cost	637.0	23.7	15.5	15.3	0.0	15.3	25.7	26.1	22.6	23.6	CONT	TBD
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	637.0	23.7	15.5	15.3	0.0	15.3	25.7	26.1	22.6	23.6	CONT	TBD
Initial Spares												
Total Proc Cost	637.0	23.7	15.5	15.3	0.0	15.3	25.7	26.1	22.6	23.6	CONT	TBD
Flyaway U/C												•
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	TBD

DEFENSE MESSAGE SYSTEM (DMS) supports organizational messaging for all classification levels from General Service (GENSER) unclassified through Top Secret/Sensitive Compartmented Information (TS/SCI). Telos Automated Message Handling System allows Web-interface for system administration for user messaging (including readers). DMS organizational messages are used to direct and commit resources, provide user authentication, non-repudiation, confidentiality, and integrity. It also maintains an archive and retrospective search capability to the warfighter and requires security at the Class 4 level. The Defense Information Systems Agency (DISA) is the lead agency and Global System Manager for DMS. A favorable Milestone III decision for unclassified through top secret collateral level messaging was achieved. The Department of Defense Intelligence Information System is the Operations Manager for the Intelligence Community to support TS/SCI messaging. Within the Marine Corps, there are two distinct acquisition efforts to field DMS to strategic and tactical communication centers to all classification levels. Authorized Acquisition Objective (AAO) is a quantity of 100.

BASE TELECOMMUNICATIONS INFRASTRUCTURE (BTI) provides all Marine Corps installations with the communications infrastructure service that connects the end-user to the DISA network. BTI sustains, upgrades and enhances the telecommunications systems infrastructure for all Marine Corps Installations in order to meet the demands required to support the 5th Element of the Marine Air Ground Task Force (MAGTF). BTI is designed to maintain current industry standands as they relate to technological capabilities. All non-Navy Marine Corps Intranet voice, video and data services are transported via each installation's infrastructure. These data services include, but are not limited to: Enhanced 911, Video-Teleconferencing, Integrated Services Digital Network, Marine Corps Enterprise Network, Energy Monitoring Control Systems, Intrusion Detection Systems, Fire Alarm Control Networks and Fleet Training Systems. This includes supporting systems such as optical networks, telecommunications management systems, primary power, voicemail, conferencing, and Outside Plant infrastructure. The ongoing focus is standardization on DISA Unified Capabilities (voic video, collaboration, and data) through modernization of installation infrastructure in order to maintain connection to the DISA network.

PUBLIC KEY INFRASTRUCTURE (PKI) is a framework of laws, policies, procedures and technologies for the use of digital credentials, which provide confidentiality, integrity, authenticity, and non-repudiation in electronic communications and transactions. PKI allows secure access to Information Technology (IT) systems. PKI has the ability to electronically sign documents, encrypt messages and documents, and to authenticate and protect web access. PKI is an initiative designed to support all United States Marine Corps (USMC) users and applications in Public Key Enablement and reduce overall cost to the Marine Corps. Marine Corps Systems Command (MCSC) has developed and the Department of Defense (DOD) has adopted a Protection Profile to provide a standard of "security goodness" against which a Public Key-Enabled application can be tested. The PKI program is responsible for deploying public key infrastructure to support tactical and Secret Internet Protocol Router Network users throughout the Marine Corps. This infrastructure includes tokens, card readers, servers and workstations that will support the deployment of Common Access Cards to the operating forces and enhance the Marine Corps Defense-in-Depth posture in accordance with DOD requirements.

TACTICAL SYSTEM SUPPORT EQUIPMENT (TSSE) requires equipment and support for the Marine Corps Tactical System Support Activity (MCTSSA) to satisfy the demand from operational MAGTFs, staff, and acquisition agencies for support in assessing the level of integration of systems within the MAGTF network architecture. MCTSSA has established a Systems Integration Environment (SIE) that is made up of the data, communication, and transmission systems fielded to the Operating Forces. The SIE provides interoperability and integration assessments to decision-makers at MCSC. This includes testing and assessing new software and systems, replicating and exploring interoperability problems encountered by the Operating Forces, and analyzing systems for the proper implementation of standards, protocols, and interfaces prior to fielding. In addition, the equipment provides the Marine Corps with a controlled test environment that reflects the network configuration of an operational Marine Expeditionary Force level MAGTF employed alone or as part of a Joint Task Force. Equipment is required to support MCTSSA's effort on Life Cycle Software Support for tactical systems. Items are essential to provide hardware and software support for the Marine Corps tactical data systems that are fielded. The SIE gives the Marine Corps the ability, functionality, and interoperability of multiple systems employed by the MAGTF

Exhibit P-40, Budge	et Item Justific	ation Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	-
Procurement, Marine Corps (1109) / 04 Communications and El	ectronics Equipme	ent / 4635	COMM & ELEC I	NFRASTRUCTURE SUPPORT
Program Elements:	Code:	Other Related Program	Elements:	
0206313M Marine Corps Communication Equipment	Α			

MARINE CORPS INFORMATION OPERATIONS CENTER (MCIOC) provides Marine Air Ground Task Force (MAGTF) commanders and the Marine Corps a responsive and effective full-spectrum information operations (IO) planning and psychological operations delivery capability by means of deployable support teams and a comprehensive general support IO reach-back capability in order to integrate IO into Marine Corps operations. MCIOC also provides IT infrastructure for voice, video and data. Multiple classification levels require separate IT infrastructure to support each classification level in accordance with National Security Agency and Defense Intelligence Agency standards. This includes equipment necessary for connecting internal MCIOC IT infrastructure (voice, video, and data) with the existing Marine Corps Base Quantico support infrastructure.

MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS) provides an overarching portfolio of capabilities to deliver "Power to the Edge" for the Marine Corps. Born from an effort to establish a Continuity of Operations Plan of Headquarters Marine Corps (HQMC) Automated Information Systems, MCEITS will realign the existing USMC environment of applications, databases, networks, and facilities into an integrated architecture and programs to deliver new information technology capabilities based on a common infrastructure and shared services. MCEITS is a unifying framework of both the Net-Centric Enterprise Services to be delivered, and the infrastructure and systems which must be deployed to enable delivery of those services. Initially it will encompass the Operational, Technical and Systems architectures of the garrison environment. Ultimately, it will extend to transform Command and Control (C2) both in garrison and in the deployed environment.

Combined with policy, procedure, and standards provided by HQMC Command, Control, Communications and Computers; MCEITS will allow for achievement of architectural standardization, consolidated management, seamless interoperability, and access to the data residing in our currently fielded applications (business and tactical). MCEITS enables access to enterprise information and provides the ability to collaborate and share information across the business and warfighter domains.

TACTICAL REMOTE SENSOR SYSTEM Product Improvement (TRSS-PIP) will provide all weather direction, location determination, targeting, and tactical indications and warning of enemy activity in the Marine Air Ground Task Force (MAGTF) Commander's Area of Interest. The TRSS-PIP is an equipment suite consisting of three primary sub-systems: Unattended Ground Miniature Sensors (UGMS); Relay Systems; and monitoring systems. The sensor systems will include seismic/acoustic sensors, electro-magnetic sensors, infrared (passive) sensors; and air-delivered sensors. The relay systems include dual channel duplex commendable and single channel repeaters. The monitoring system includes the Sensor Mobile Monitoring System (SMMS). The composition of the three sub-systems are comprised of several individual components. As the Product Improvement Program proceeds, upgrading of individual components will occur on an as needed basis.

Exhibit P-	40a -	Iten	n Justificat	ion for A	ggregate	d Items			Date:	Febru	ary 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) /	04 Co	mmur	nications and E	Electronic E	quipment / 4		P-1 Item Nome		LEC INFRAS	STRUCTURE	SUPPORT	
Procurement Items	Code	UOM	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011				
TACTICAL SYSTEM SUPPORT EQUIPMENT (TSSE)	Α	D	4.841	1.143	1.161	1.182	0.000	1.182				
PUBLIC KEY INFRASTRUCTURE (PKI)	Α	Q D	7.464	0.799	0.930	0.998	0.000	0.998				
MARINE CORPS INFORMATION OPERATIONS CENTER (MCIOC)	Α	Q D	0.000	1.027	0.324	0.826	0.000	0.826				
TACTICAL REMOTE SENSOR SYSTEM (TRSS)	А	Q D	0.000	2.250	0.000	0.000	0.000	0.000				
DEFENSE MESSAGE SYSTEM (DMS)	Α	Q D	41804.000	0.000	0.525	0.464	0.000	0.464				
		Q										
TOTAL			41816.305	5.219	2.940	3.470	0.000	3.470				
Active Reserves			41816.305 0.000	5.219 0.000	2.940 0.000	3.470 0.000	0.000	3.470 0.000				

Exhibit P-5 Cost Analysis		Appropriation/ Procurement, N Communication / 4635	Marine Corp	•	P-1 Line Ite COMM & E INFRASTR	LEC		Weapon Sy	stem Type:		ary 2010
Weapon System	ID	Prior Yrs		FY 09			FY 10			FY 11	
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS)			5,949	VAR	VAR						
Infrastructure build-out of Kansas City facility			·								
BASE TELECOMMUNICATIONS INFRASTRUCTURE (BTI): Base telecommunications systems aboard Marine Corps installations worldwide.	Α	151,355	12,512	VAR	VAR	12,607	VAR	VAR	11,808	VAR	VAR
TOTAL ACTIVE RESERVE	D	151,355 151,355 -	18,461 18,461 -			12,607 12,607 -			11,808 11,808 -		
							_	_			

	Exhibit	P-40, Bud	lget Item J	ustificatio	n Sheet				Date:	Eghr	uary 2010	
ppropriation / Budget	Activity/Serial No:						P-1 Item Nom	nenclature:		rebi	uary 2010	
rocurement, Marine C	orps (1109) / 05 S	upport Vehicl	es / 5003						mmercial Pas	ssenger Veh	nicles	
rogram Elements:		- 4			Code:	Other Relate	d Program Ele	ments:				
020649	6M Base Operation	ns, Forces (M	arine Corps)	Base	A OCO	Total		<u> </u>	<u> </u>	l I	1	
	Prior Years	FY2009	FY2010	FY2011	FY2011	FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Tota
roc Qty												
iross Cost	28.3	1.2	1.3	1.2	0.0	1.2	0.9	0.9	0.9	1.0	Cont	Cont
ess PY Adv Proc												
lus CY Adv Proc												
let Proc (P-1)	28.3	1.2	1.3	1.2	0.0	1.2	0.9	0.9	0.9	1.0	Cont	Cont
nitial Spares												
otal Proc Cost	28.3	1.2	1.3	1.2	0.0	1.2	0.9	0.9	0.9	1.0	Cont	Cont
Flyaway U/C												
Vpn Sys Proc U/C												
Vpn Sys Proc U/C												
Npn Sys Proc U/C Reserves Base Appropriat Commercial Passen		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 uses at Marino	0.0 e Corps ove	erseas bases and	d station
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
Reserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
Reserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
Reserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
eserves Base Appropriat Commercial Passen	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d stations
Reserves Base Appropriat	ger Vehicles - Fur	nds in this line	e are used for	the replaceme	ent of centrally	managed sec	dans, station w	vagons and bu	uses at Marin		erseas bases and	d station:

Exhibit P-40a, Budget Item Jus	tificat	ion for	· Aggregated	d Items			Date:	ı	February 2010	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 05 Support Vehicles / 5003					P-1 Item Nom	enclature:	Commer	cial Passenger	Vehicles	
Procurement Items	Code	UOM	Prior Years		FY2009	FY2010	Base		Total FY2011	
Commercial Passenger Vehicles	Α	D	28.3 VAR		1.197 VAR	1.261 VAR	1.157 VAR	0.000 VAR	1.157 VAR	
		Q	VAR		VAR	VAR	VAR	VAR	VAR	
Total					1.197	1.261	1.157		1.157	_
Active Reserve					1.197 0.0	1.261	1.157 0.0		1.157 0.0	_

		Exhibit P-4	0, Budget I	em Justifi	cation She	eet			Date:	Fehri	uary 2010	
Appropriation / Budget	Activity/Serial No:						P-1 Item Nome	enclature:	<u>!</u>	1 CDI	aly 2010	
Procurement, Marine C	orps (1109) / 05 St	upport Vehicles	5 / 5006						Commercial	Cargo Vehicle	8	
Program Elements:					Code:	Other Relate	d Program Elem	nents:				
206496M Base Opera	tions, Forces (Mar	ine Corps)		l 6	A	-	ı			Ī		
	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total
Proc Qty												
Gross Cost	94.1	17.6	13.6	12.7	0.0	12.7	14.3	14.6	15.0	15.4	Cont	Cont
ess PY Adv Proc												
Plus CY Adv Proc	\bot											
Net Proc (P-1)	94.1	17.6	13.6	12.7	0.0	12.7	14.3	14.6	15.0	15.4	Cont	Cont
nitial Spares												
Total Proc Cost	94.1	17.6	13.6	12.7	0.0	12.7	14.3	14.6	15.0	15.4	Cont	Cont
Tyaway U/C												
Vpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
COMMERCIAL C. purpose trucks; re			all types of t	railers and	motor scoo			ns througho	ut the Marin			

Exhibit P-40a, Budget Item Jus	tificat	ion fo	r Aggregate	d Items			Date:	F	ebruary 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 05 Support Vehicles / 5006					P-1 Item Nom	nenclature:	Comme	rcial Cargo Ve	hicles	
Procurement Items	Code	UOM	Prior Years		FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	
Emergency Response Vehicles	Α	D			0.000	3.128	3.197	0.000	3.197	
		Q			VAR	VAR	VAR	VAR	VAR	
					`					
Total					0.000 0.000	3.128 3.128	3.197 3.197	0.000	3.197 3.197	
Active Reserve					0.000	0.000	0.000	0.000	0.000	

Exhibit P-5 Cost Analysis	Procure	riation/ Budge ement, Marine t Vehicles / 50	Corps (1109		P-1 Line Ite Commercia Vehicles	em Nomenclatu al Cargo	Weapor	n System Ty	ype:	Date: Febru	ary 2010
Weapon System	ID CD	Prior Yrs TotalCost	TotalCoat	FY2009		TotalCost	Y2010	LinitCoot		FY2011	
Cost Elements	ID OD	\$000	TotalCost \$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u> COMMERCIAL CARGO VEHICLES	А	26808	17600	VAR	VAR	10440	VAR	VAR	9499	VAR	VAR
Low density procurements of multiple configurations of utility vehicles, cargo trucks, 8-passenger vans, pickups, stake trucks, wreckers, dump trucks, etc).											
TOTAL ACTIVE RESERVE		26808 26808				10440 10440 0			9499 9499 0		

		Exhibit F	P-40, Budge	et Item Justi	fication She	et			Date: Februa	ıry 2010		
Appropriation / Budget	Activity/Serial No:						P-1 Item Nome	nclature:				
Procurement, Marine C	orps (1109) / 05 S	upport Vehicles	5 / 5045						5/4T TRUC	K HMMWV		
Program Elements:				Code:		Other Related	Program Elemei	nts:				
0206315M Ford	ce Service Support	Group		Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty	4141	591	213	17	77	94	0	3	118	236		
Gross Cost	438.7	131.0	37.6	4.8	13.0	17.8	0.7	2.5	21.8	48.1	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	438.7	131.0	37.6	4.8	13.0	17.8	0.7	2.5	21.8	48.1	Cont	Cont
Initial Spares												
Total Proc Cost	438.7	131.0	37.6	4.8	13.0	17.8	0.7	2.5	21.8	48.1	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Expandable Capacity Vehicles (ECV): The ECV is an improved version of the standard Highly Mobile Multipurpose Wheeled Vehicle (HMMWV) based on the M1114 with a heavier chassis and improved engine. The concept and design of the add on armor kits provide greater tactical flexibility for deploying units or training. ECV variants include:

ECV M1152/M1165: Troop and Shelter Carrier, and Troop/MRC/Command Variants.

ECV M1152A1/M1165A1: Troop and Shelter Carrier, and Troop/MRC/Command Variants. The A1 depicts these vehicles have Integrated Armor Package with underbody armor.

ECV M1151A1 wB1 Armor Kit: Armament Carrier
ECV M1152A1 w/B2 Armor Kit: Troop and Shelter Carrier
ECV M1165A1 w/B3 Armor Kit: Troop/MRC/Command Variant
ECV M1167A1 w/B Armor Kit: TOW Missile ECV Variant

Marine Corps Transparent Gun Shield / Battery Powered Motorized Traversing Unit (MCTAGS / BPMTU) is the Marine Corps protection for the M1151A1B1 Armament Carrier Gunner.

The current HMMWV ECV procurement strategy is based on the Marine Requirments Oversight Committee (MROC) guidance that every vehicle will have basic armor protection with the capability of taking on full armor protection. The MROC guidance requires 60% of the HMMWV fleet will be fully armored and 40% of the fleet will have the basic Integrated Armor Package (IAP). All ECV with basic IAP are able to be upgraded with additional armor kits.

FY11 Overseas Contingency Operations Request (OCO): \$12.994M

The FY11 OCO funding will procure ECV Variants to replace 52 OIF/OEF combat losses and for some limited long term Reconstitution.

	Approp	riation/ Budget Activity	y/Serial No:	P-1 Line Item	Nomenclature:	Weapon Sys	tem	Date:			
		ement, Marine Corps (t Vehicles / 5045	(1109) / 05	5/4T Truc	ck HMMWV			F	ebruary 2010		
Weapon System		Prior Yrs		FY 09			FY 10			FY 11	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	Total Cost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline HMMWV M1151/1152 HMMWV M1151A1B1 HMMWV M1165A1B3 HMMWV M1167-Tow Missile Carrier w/Armor HMMWV ILS/ENG/ECPs MCTAGS MCTAGS BPMTU/MTU Only MCTAGS Turret Assembly		431354 7,378	79026 5,902 23230 4,173 7976 1858 8813	37 101 327 205	174448 159,492 230000 24390 9061 7000	34,246 3,356		160,775	2,757 2,092		162,156
Subtotal FY11 OCO		438,732	130,978			37,602			4,849		
HMMWV M1165A1B3 HMMWV ILS/ENG/ECPs									12,486 508		162,156
Subtotal		0	0			0			12,994		
TOTAL ACTIVE RESERVE		438,732 438,732	130,978 130,978 0			37,602 37,602 0			17,843 17,843 0		

	Exhibit P-5a, Budget Procurement H	istory and	d Planning					Date: Fel	oruary 20	010
Appropriation / Budget Activity/Serial No:		Weapon S	System Type:		P-1 Line Ite	em Nomen	clature:		•	
Procurement, Marine Corps (1109) / 05	Support Vehicles / 5045					Ę	5/4T TRUCK H	MMWV		
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY	Unit Cost \$	Specs	Date Revsn	RFP Issue
Fiscal Years	Contractor and Location	Type	Location of PCO	Award Date	Delivery	Each	Offit Cost \$	Avail?	Avail	Date
FY09										
HMMWV M1151A1B1	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-09	Sep-09	102	174,448	Yes	N/A	N/A
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-09	Sep-09	37	159,492	Yes	N/A	N/A
HMMWV M1151A1B1	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-09	Mar-10	351	174,448	Yes	N/A	N/A
HMMWV M1167-Tow Missile Carrier w/Armor	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-09	Mar-10	101	230,000	Yes	N/A	N/A
MCTAGS	BAE, Santa Clara, CA	FFPO	MCSC, Quantico	Nov-09	Mar-10	327	24,390	Yes	N/A	N/A
MCTAGS BPMTU/MTU Only	BAE, Santa Clara, CA	FFPO	MCSC, Quantico	Nov-09	Mar-10	205	9,061	Yes	N/A	N/A
MCTAGS Turret Assembly	BAE, Santa Clara, CA	FFPO	MCSC, Quantico	Nov-09	Mar-10	1259	7,000	Yes	N/A	N/A
FY10										
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Jan-10	May-10	213	160,775	Yes	N/A	N/A
FY11										
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-10	Mar-11	17	162,156	Yes	N/A	N/A
FY11 OCO										
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-10	Mar-11	77	162,156	Yes	N/A	N/A
			, ,				,			
I										
REMARKS:										

Exhibit P-21, Production Sched																				Date:					Febru	ary 2	010				
appropriation Code/CC/BA/BSA/Item Co							Weap	oon Sy	stem					P-1 Ite	em No	mencl	ature:														
Procurement, Marine Corps (1109) / 05 \$	Support Vehicles / 5045																					4 Tru	ck HN	ИWWV							
								PRO	DUCT	FION I	RATE						CURE														
TEM	Manufacturer's NAME / LOCATION						MS	SR	EC	ON	M	AX		Prio	r to	ALT	After	Oct		nitial g PL			der PLT	Mfg		то	TAL		Unit of		
TEW													<u> </u>	JUL 1	-					9	_						17.12		wioac	70.0	_
HMMWV ECV	AM General Corp, South Bend,	N					10	00	10	00	28	83					1				-		4				5			Е	_
MCTAGS/BPMTU/Turret Assembly	BAE, Santa Clara, CA						10	00	20	00	40	00					1						4				5			Е	
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TEM		Υ	C	Y	L	L	T	۷	E C	N N	В	R	R	Y	N	L	U G	P		V	E C	N N	В	R	R	Y	N	L	G	P	
HMMWV ECVs (M1151, M1152, M1	165. M1167's) with armor	FY09	МС	139	0	139															1					Α				139	t
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ITEM		'	С	Υ	L	L	Т	٧	С	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	В	R	R	Υ	N	L	G	Р	
HMMWV ECVs (M1151, M1152, M1	165, M1167's) with armor	FY09	MC	452	0	452		Α				92	92	92	92	84															
MCTAGS		FY09	MC		0	327		Α				28	28			28			28				19								
BPMTU		FY09	MC		0	205		Α				17	17			17							17								┖
MCTAGS Turret Assembly		FY09	MC		0	1259		Α				105	105				105	105	105	105	105	105	104			<u> </u>				₩'	L
HMMWV ECVs (M1151, M1152, M1 HMMWV ECVs (M1151, M1152, M1		FY10 FY11	MC MC		0	213	\vdash			Α				98	98	17		4		Α		_		0.4		<u> </u>	Щ			+	╄
HMMVVV ECVS (M1151, M1152, M1 Remarks:	100, WITTO/S) WILLI ALTHOL	ГПТ	IVIC	94	U	94					ı	l								А				94		1			1		┸

Exhibit P-21 Budget Item Justification Sheet

	Exh	ibit P-40, Bı	udget Item	Justificatio	n Sheet			Date:		February	2010	
Appropriation / Budget Procurement, Marine C	•	upport Vehicles	s / 5050			P-1 Item Nome	nclature:	N	lotor Transport	Modifications		
Program Element: 0206315M Force Servi	ce Support Group			Code:	Other Related	Program Eleme	ents:					
	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total
Proc Qty												
Gross Cost	62.1	38.4	3.0	5.3	0.0	5.3	6.4	6.6	6.8	6.9	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	62.1	38.4	3.0	5.3	0.0	5.3	6.4	6.6	6.8	6.9	CONT	CONT
Initial Spares												
Total Proc Cost	62.1	38.4	3.0	5.3	0.0	5.3	6.4	6.6	6.8	6.9	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Medium Tactical Vehicle Replacement (MTVR) Modification - The MTVR modification program funds numerous and extremely important modifications and initiatives that are required to address operational priorities, engineering change proposals, safety concerns, support equipment inefficiencies, tool malfunctions, product quality deficiencies, beneficial suggestions and other issues that affect vehicle reliability, availability and readiness. A proactive and focused approach ensures proper vehicle sustainment and life-cycle management and it allows the program office to develop/implement improvements as needed to respond to the evolving needs of the Marine Corps.

Lightweight Mine Roller - can be attached to wheeled vehicles to counter pressure initiated Improvised Explosive Devices Threats. The rollers can be mounted to HMMWV, MTVR, LAV, and JERRV/Cougar vehicles to minimize damage to vehicles and, more importantly, prevent injury or loss of life to those Marine/Sailors/Soldiers in the vehicle crew compartment. Increased demand and use of rollers are decreasing current inventory levels at rapid rate.

Exhibit P-5 Cost Analysis		Appropriation Procurement, Vehicles / 50	Marine Corp					Item Nomencla ansport Modific		Weapon	System Type) :	Date: Februa	ry 2010
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost	TotalCost	FY09	11-1016	TotalCost	FY10 Qty		TotalCost	FY11 Qty	H-20			
Cost Elements		\$000	\$000	Qty Each	UnitCost \$	\$000	Each	UnitCost \$	\$000	Each	UnitCost \$			
aseline ITVR ECPs ightweight Mine Rollers		62100	38355	VAR	VAR	2991	VAR	VAR	5253	VAR	VAR			
Total Active Reserve			38355 38355 0			2991 2991 0			5253 5253 0					

	Exh	ibit P-40, B	udget Item	Justification	n Sheet			Date: Februa	ry 2010			
Appropriation / Budget Procurement, Marine C	-	Support Vehicle	es / 5088			P-1 Item Nome		DIUM TACTICA	L VEHICLE RE	PLACEMENT	(MTVR)	
Program Elements for 0206315M Force Service				Code: A	Other Related	Program Eleme	nts:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Program
Proc Qty	7395	95	887	24	120	144	12	3	304	296		9136
Gross Cost	1773.2	30.8	141.8	11.7	80.6	92.3	11.8	1.7	137.3	137.4	0.0	2326.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1773.2	30.8	141.8	11.7	80.6	92.3	11.8	1.7	137.3	137.4	0.0	2326.3
Initial Spares	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1
Total Proc Cost	1806.3	30.8	141.8	11.7	80.6	92.3	11.8	1.7	137.3	137.4	0.0	2359.4
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0

Medium Tactical Vehicle Replacement (MTVR): The MTVR is a U.S. Marine Corps program that replaced the existing medium tactical motor transport fleet of M809/M939 series trucks with cost-effective, state-of-the-art technologically improved trucks. The MTVR has 22 years of economic useful life and markedly improved performance plus Reliability, Availability, Maintainability and Durability (RAM-D). Major improvements include a new electronically controlled engine/transmission, independent suspension, central tire inflation, antilock brakes, traction control, corrosion control, and safety/ergonomic features.

MTVR Armor System (MAS) Kits - The MAS is designed for the 7-ton MTVR. Intended as a permanent modification to the vehicle. MAS provides complete 360-degree protection & overhead and underbody protection for the crew compartment.

- Utilizes Mil-A-46100 High Hard Steel and Metal Composite.
- Includes an upgraded front suspension & cab rebuild
- Removable personnel carrier (with ballistic glass)
- Air conditioning system
- Machine gun mount

FY11 Overseas Contingency Operations Request (OCO):

Funding is required to procure Medium Tactical Vehicle Replacements (MTVRs) and improvements for use in OIF/OEF. Funding is required to replace combat losses, to address MEB-A Equipment Density List (EDL) shortfalls, and to make required modifications to equipment used in theater in direct support of combat operations. The EDL is the list of equipment the Marine Expeditionary Brigade (MEB) requires to accomplish its mission in Afghanistan.

Exhibit P-5		Appropriation/ Bud	dget Activity/Ser	ial No:	P-1 Line Item No	omenclature:	Weapon	System Typ	e:	Date:	
Cost Analysis		Procurement, Mar Support Vehicles		0)/05	Medium Tactical	Vehicle Replaceme				Februa	ary 2010
Weapon System		Prior Yrs		FY 09		F	/ 10			FY 11	
Cost Elements	ID		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
VEHICLES			4==00		051000	4000		400000			
Cargo			15582	62			10		1011	40	440000
Cargo , Armored			6460				157	400000	4944	12	412000
Cargo XLWB Armored			1140				57	400000	2472	6	412000
Dump Truck, Armored			1925	5			19			2	412000
Wrecker, Armored			2935	4			8	566000			
Tractor, Armored			1740	4	435000		18	400000	1648	4	412000
MCTAGS w/ BPMTU - MTVR						8750	250	35000			
Live Fire Improvements						13236	VAR				
Vehicle Intercom						5483	350				
TOOL KIT, ORG, MTVR D						58	5				
TOOL KIT, OM, F/MTVR DUMP & WRECKER, 71						72	7				
TOOL KIT, IM, F/MTVR DUMP & WRECKER, 7-T	ON					69	6	11500			
MTVR ECP's, Production Testing			1050			5,205			1833		
Subtotal E	Baseline		30832			141802			11721		
FY 11 OCO											
Armored Cargo AMK 23/25 (D0003)									49440	120	412000
Live Fire Improvements									25160	VAR	
MTVR ECP's, Production Testing									5959		
осо	TOTAL								80559		
	TOTAL		30832			141802			92280		
	Active		30832			141802			92280		
	Reserve		0			0			0		
<u>Reserves</u>											
Subtotal R	eserves		0			0			О		

Exhibit P-5 Cost Analysis		Procurement 5088	n/ Budget Act :, Marine Cor	ps (1109	al No:) / 05 Support		Medium Tact	n Nomenclature: ical Vehicle Replace	ement		System Type	e:		ıry 2010
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost \$000	TotalCost \$000	FY12 Qty Each	UnitCost \$	TotalCost \$000	FY 13 Qty Each	UnitCost \$	TotalCost \$000	Y 14 Qty Each	UnitCost \$	TotalCost \$000	FY 15 Qty Each	UnitCost \$
VEHICLES, Armored Cargo , Armored Cargo XLWB Armored Dump Truck, Armored Wrecker, Armored Tractor, Armored MTVR ECP's, Production Testing Subtotal Baseline		\$ 000	5092 6674 11766	12	424360	874 437 382 1693	2	437091 437091	65280 12606 637 58526 278 137327	145 28 1 130	450204 637038	81613 20867	176 45 75	463710 463710 463710
TOTAL Active Reserve			11766 11766 0			1693 1693 0			137327 137327 0			137423 137423 0		

	Exhibit P-5a, Budget Procure	ment Hist	ory and Planning					Date:	ebruary 20	010
Appropriation / Budget Activity/Serial No:		Weapon S	ystem Type:		P-1 Line Ite	em Nomen	clature:		2.44.) 2.	
Procurement, Marine Corps (1109) / 05 Support Vehicles / 5088		, ,,				L VEHICLE	REPLAC	CEMENT	(MTVR)
WBS Cost Elements:		Contract		Award	Date of	QTY	Unit Cost	Specs	Date	RFP
Fiscal Years	Contractor and Location	Method & Type	Location of PCO	Date	First Delivery	Each	\$	Avail?	Revsn Avail	Issue Date
FY 09 MTVR		1,700			Bollvory				/ tvaii	Date
MTVR Cargo	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jul-09	Mar-10	62	251322	Yes	N/A	N/A
MTVR Cargo MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	17	380000	Yes	N/A	N/A
3 .	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM		Sep-10 Sep-10			Yes		
MTVR Cargo XLWB Armored	'	FFPO		Jan-10		3 5	380000		N/A	N/A
MTVR Dump Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	5	385000	Yes	N/A	N/A
MTVR Wrecker Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	4	733786	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	4	435000	Yes	N/A	N/A
FY10 MTVR										
MTVR Cargo	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	10	400000	Yes	N/A	N/A
MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	157	400000	Yes	N/A	N/A
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	57	400000	Yes	N/A	N/A
MTVR Dump Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	19	400000	Yes	N/A	N/A
MTVR Wrecker Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	8	566000	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	18	400000	Yes	N/A	N/A
MCTAGS w/ BPMTU - MTVR	BAE	FFPO	MARCORSYSCOM	Jul-09	TBD	250	35000	Yes	N/A	N/A
ive Fire Improvements	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	TBD	TBD	VAR		Yes	N/A	N/A
/ehicle Intercom	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM	TBD	TBD	350	15666	Yes	N/A	N/A
TOOL KIT, ORG, MTVR D	Oshkosh Truck Corp. Oshkosh, WI	_	MARCORSYSCOM	TBD	TBD	5	11600	Yes	N/A	N/A
OOL KIT, OM, F/MTVR DUMP & WREC	•		MARCORSYSCOM	TBD	TBD	7	10350	Yes	N/A	N/A
OOL KIT, IM, F/MTVR DUMP & WRECH			MARCORSYSCOM	TBD	TBD	6	11500	Yes	N/A	N/A
Y11 MTVR	,									
MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-11	Sep-11	12	412000	Yes	N/A	N/A
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM	Jan-11	Sep-11	6	412000	Yes	N/A	N/A
MTVR Dump Armored	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM	Jan-11	Sep-11	2	412000	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-11	Sep-11	4	412000	Yes	N/A	N/A
FY11 OCO	Oshkosh Huck Colp. Oshkosh, Wi	1110	WARCORSTSCOW	Jan-11	Sep-11	4	412000	163	IN/A	IN/
MTVR Cargo Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-11	Sep-11	120	412000	Yes	N/A	N/A
ive Fire Improvements	Oshkosh Truck Corp. Oshkosh, WI	_	MARCORSYSCOM	TBD	TBD	VAR	412000	Yes	N/A	N/A
·	Oshkosh Huck Colp. Oshkosh, Wi	FFFO	WARCORSTSCOM	טפו	טסו	VAK		168	IN/A	IN/P
FY12 MTVR	Oakkaak Trusk Care Oakkaak Mil	FEDO	MADCODOVOCOM	Nov. 11	lul 40	40	404000	Vaa	NI/A	NI/A
MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Nov-11	Jul-12	12	424360	Yes	N/A	N/A
Y13 MTVR										
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-11	May-13	2	437091	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Nov-12	Jul-13	1	437091	Yes	N/A	N/A
Y14 MTVR										
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-11	Jul-14	145	450204	Yes	N/A	N/A
ITVR Dump Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Nov-13	Jul-14	28	450204	Yes	N/A	N/A
MTVR Wrecker Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Nov-13		1	637038	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM	Nov-13		130	450204		N/A	N/A
Y15 MTVR										
MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Nov-14	Jul-15	176	463710			
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM	Nov-14	Jul-15 Jul-15	45	463710	Yes	N/A	N/A
MTVR Cargo ALWB Affiliated MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI		MARCORSYSCOM	Nov-14 Nov-14	Jul-15 Jul-15					
REMARKS:	OSHKOSH TRUCK COIP. OSHKOSH, WI	I FFPU	IVIARCURS 1 SCUIVI	1107-14	Jui-15	75	463710	Yes	N/A	N/A

EXHIBIT P-21, PRODUCT	ON CONLEGEE)ate:				Fe	brua	ary 2	010				
Appropriation Code/CC/BA/BSA/I							Wea	pon S	Syste	m				P-1 I	tem I	Nome															
Procurement, Marine Corps (1	109) / 05 Support Ve	ehicles ,	/ 5088	}																			REF	PLAC	EMI	ENT	(MT)	√R) ((5088	3)	
							PF	RODI	UCT	ION	RAT	E									MITC										
ITEM	Manufacturer	's NAM	1E / L0	OCATIO	N		MS	SR	EC	ON	MA	٩X		Prio			Afte	er		ial N	_	Reo		Mfg		ТО	TAL	ŀ		Unit	
MTVRs (Wrecker/Cargo)	OSHKOSH, Oshl	look M/I					10/i		30/r		35/r			Oct 1			ct 1	4		PLT 8			PLT			_	10	_	- IV	leas E	
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MTVR MAS	OSHKOSH, Oshi	kosh. WI					10/	mo.	30/r	mo.	35/r	mo.			-		1	-		8						-	10	-	\vdash	Е	
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ITEM		Y	V	T Y	E L	A L	C T	0 V	D E C	A N	E B	5	P R	A Y	U N	U L	U G	E P	O C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E
ITEM MTVR Cargo Truck,	MCTAGS w/	FY 09	MC	62		62			-			\dashv			-	\vdash	+	+	=	-					 		₩	Α	$\vdash \vdash$	-	62
MTVR Cargo Truck, Armored	MCTAGS w/	FY 09	MC	17		17					\vdash					\vdash	\dashv	\dashv	\dashv	-		 					\vdash	_	$\vdash \vdash$		17
MTVR XLWB Cargo, Truck Ar		FY 09	MC	3		3												T									\vdash				3
MTVR Dump Truck, Armored		FY 09	MC	5		5			一							H	7	寸		1							T	Г			5
MTVR Wrecker, Armored		FY 09	MC	4		4												╛													4
MTVR Tractor, Armored		FY 09	MC	4		4												1													
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MTVR Cargo Truck,		FY 09	MC	62		62						30	32					T													0
MTVR Cargo Truck, Armored		FY 09	MC	17		17				Α								17													0
MTVR XLWB Cargo, Truck Ar	mored	FY 09	МС	3		3				Α								3													0
MTVR Dump Truck, Armored		FY 09		5		5				Α								5													0
MTVR Wrecker, Armored		FY 09	1	4		4				Α								4													0
			1	4		4				Α								4									\vdash				0
MTVR Tractor, Armored		FY 09	MC	_		<u> </u>			_	-							-	_									₩	\vdash	\vdash		-
MTVR Cargo Truck,		FY 10	МС	10		10					H					H	Α	十	\dashv	7					2	2	2	2	2		0
MTVR Cargo Truck, Armored		FY 10	МС	157		157											Α								20					20	32
MTVR XLWB Cargo, Truck Armor	ed	FY 10	MC	57		57											Α								10	10	10	10	10	7	0
MTVR Dump Truck, Armored		FY 10	MC	19		19											Α								3		3	3	3	4	0
MTVR Wrecker, Armored		FY 10	MC	8		8											Α	4							2	-	2	2	$\vdash \vdash$		0
MTVR Tractor, Armored		FY 10	MC	18		18											Α	-							5	5	5	3	₩		0
MTVR Cargo Truck, Armored		FY11	MC	12		12			\dashv						-	\vdash		\dashv		-		Α			-		\vdash	\vdash	\vdash	12	0
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EXHIBIT P-21, PRODUCTION	SCHEDULE																			Date	:			Fe	hrus	ary 2	010				
Appropriation Code/CC/BA/BSA/Item (Procurement, Marine Corps (1109		ehicles	/ 5088	3			Wea	pon (Syste	em				P-1	tem I				CTI	CAL	VEH	IICLE	REF					VR)	(508)	38)	
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MTVRs (Wrecker/Cargo)	OSHKOSH, Osh	kosh, WI					10/	mo.	30/	mo.	35/	mo.					6			8						1	10			Е	
MTVR MAS	OSHKOSH, Osh	kosh, WI					10/	mo.	30/	mo.	35/	mo.					1			8						1	10	—	┢	E	
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MTVR Cargo Truck, Armored		FY11	МС	120	25	95	20			20	15																	1			0
MTVR Cargo Truck, Armored		FY12	MC	12		12		Α								12												F			0
MTVR XLWB Cargo, Truck Armored		FY13	МС	2		2																				2				\vdash	0
MTVR Wrecker, Armored		FY13	MC	1		1														Α							<u> </u>	1			0
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MTVR XLWB Cargo, Truck Armored		FY14	MC	145		145										20	12	12	12	12	12	12	12	12	12	12	5	1			0
MTVR Dump Truck, Armored		FY14	MC	28		28		Α								12	12	4													0
MTVR Wrecker, Armored		FY14	MC	1		1		Α								1															0
MTVR Tractor, Armored		FY14	MC	130		130		Α								12	13	15	15	15	15	15	15	15				\vdash	 		0
MTVR Cargo Truck, Armored		FY15	МС	176		176												\dashv		Α							 	20	20	20	116
MTVR XLWB Cargo, Truck Armored		FY15	MC	45		45	Ī											T		Α								10	10	10	15
MTVR Tractor, Armored		FY15	MC	75		75														Α								10	10	10	45
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	Exh	ibit P-40, B	udget Item	Justification	n Sheet			Date:		Febru	ary 2010	
Appropriation / Budget Procurement, Marine C			es / 5093			P-1 Item Nome		STICS VEHICL	E SYSTEM RE	PLACEMENT	(LVSR)	
Program Elements for 0206315M Force Servi				Code: A	Other Related	Program Eleme	ents:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Program
Proc Qty	145	518	574	240	230	470	0.0	0.0	0.0	0.0		1707
Gross Cost	246.3	255.1	275.9	133.8	109.1	242.9	2.5	2.6	2.6	2.7		1031
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	246.3	255.1	275.9	133.8	109.1	242.9	2.5	2.6	2.6	2.7		1031
Initial Spares	0.0	0.4	11.1	9.4	0.0	9.4	0.0	0.0	0.0	0.0		21.0
Total Proc Cost	246.3	255.6	287.1	143.2	109.1	252.3	2.5	2.6	2.6	2.7		1051.8
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Logistical Vehicle System Replacement (LVSR): The LVSR will replace the LVS legacy fleet as the Marine Corps' heavy tactical logistics vehicle. The fleet will be composed of three variants to replace the 5 LVS variants. Cargo, Tractor and Wrecker Variants will be procured. The LVSR will conduct the same missions as the current LVS fleet with the exception that the Cargo vehicle will be capable of handling payloads of 16.5 tons off road as opposed to 12.5 tons and will be more mobile in terms of speed and off-road ride quality.

FY11 Overseas Contingency Operations Request (OCO): \$109.1M

The LVSR is the replacement for the aging LVS system and provides greater lift capability to the operating forces. Sustained pre-deployment optempo has stressed the LVS equipment pools thereby degrading the quality of training to forces. These LVSR systems will help alleviate the stress and increase training readiness.

Flatrack Refueling Capability (FRC): The Flatrack Refueling Capability (FRC) will consist of a 2500 gal (threshold) - 3000 (objective) gal tank, an onboard pump, filter assembly, and required hoses and equipment. The FRC will be able to provide refueling support to Marine Corps forces in unimproved locations.

The FRC is a LVSR-compatible system designed to provide overwing and underwing refueling and defueling for aircraft, and to provide refueling capability for the Force Service Support Group (FSSG) to meet its cross country requirements. FRC funding moved to LI 5097 beginning in FY 2010.

	Appropriation/ Bud Procurement, Mari	•		P-1 Line Item No LOGISTICS VEH		Weapon	System Type	э:	Date:	ıry 2010
_	Vehicles (5) / 5093 Prior Yrs		FY 09	REPLACEMENT	, ,	Y 10			FY 11	ily 2010
ID CD		TotalCost		UnitCost \$	TotalCost \$000	Qty	UnitCost \$	TotalCost		UnitCost \$
	TotalCost \$000	\$000	Qty Each	UnitCost \$	TotalCost \$000	Each	UnitCost \$	\$000	Qty Each	UnitCost \$
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	33039	6568	11		210474	339	390030	27597	45	613271
		6233	17		5477	15	365158		145	370761
	5598	20045	•••	0000.0	5544		000100	8855	0	0.0.0.
	14848	3109			381			677		
	5964	2099			1085			1895		
	1758	1501			577			2537		
	2683	1048			556			1083		
	3879	13040			12269			12804		
	3200	2201			6743			4508		
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ıI	91678	247677			275941			133827		
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	Exhibit P-5a, Budget Procuren	nent Histo	ory and Planning					Date:	ebruary 2	010
Appropriation / Budget Activity/Seria Procurement, Marine	al No: Corps (1109) / Support Vehicles (5) / 5093	Weapon S	System Type:		P-1 Line Ite		nclature: :LE SYSTEM			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type		Award Date	Date of First Delivery	QTY Each	Unit Cost	Specs Avail?	Date Revsn Avail	RFP Issue Date
LVSR		Туре			Delivery		<u> </u>		Avaii	Date
FY09 FY09 Cargo Variant FY09 Wrecker Variant FY10 FY10 Cargo Variant FY10 Tractor Variant FY11 Tractor Variant FY11 Cargo Variant FY11 Cargo Variant FY11 Wrecker Variant FY11 Tractor Variant	Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI Oshkosh Corporation, Oshkosh, WI	FFP FFP FFP FFP FFP	PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA PEO, LS, Quantico, VA	Dec-08 Dec-09 Dec-09 Dec-10 May-11 May-11	Sep-09 Jul-09 Jun-10 Jun-10	490 11 17 559 15 280 45 145	384634 597119 366619 390830 365158 402207 613271 370761	Yes Yes Yes Yes	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
REMARKS:										

EXHIBIT P-21, PRODUCTI	ON SCHEDULE																		Date	:			Fe	brua	ry 20	010				
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LVSR Tractor Variant		FY10		15	0	15		Α						1	1	1	1	1	1	1	1	1	2	2	2	Ш		Ш		0
LVSR Cargo Variant		FY11	MC	280	0	280	$oxed{oxed}$		_	igsqcut										Α					Ļ	60	75	65	55	25
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Appropriation Code/CC/BA/BS Procurement, Marine Corps (1			es / 50	93			Wea	apon	Syst	tem				P-1	Item	Nor				VEH	ICLE	E SY	'STE	EM F	REPL	ACE	ME	NT (LVSI	R)	
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Vrecker	Oshkosh Co	rporatio	n, Oshl	kosh, W	I			8	1:	3	3	30					2			9			6			1	1				Е
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VSR Cargo Variant		FY11	MC	280	255	25	25																								0
VSR Wrecker Variant		FY11		45	0	45						4	4			10															0
VSR Tractor Variant		FY11	MC	145	0	145						20	25	25	25	25	25				-										0
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	Exh	nibit P-40, B	udget Item	Justificatio	n Sheet			Date: Februa	ry 2010			
Appropriation / Budget Procurement, Marine C	=	upport Vehicles	s / 5097			P-1 Item Nome	nclature:	FAMILY	OF TACTICAL	. TRAILERS		
Program Elements: 020631	5M Force Service S	Support Group		Code: A	Other Related	Program Eleme	nts:	_				_
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty		0	0	0	0	0	0	0	0	0		
Gross Cost	213.1	33.0	34.8	19.2	22.1	41.3	22.0	44.6	58.4	57.4	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	213.1	33.0	34.8	19.2	22.1	41.3	22.0	44.6	58.4	57.4	Cont.	Cont.
Initial Spares	0.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Proc Cost	213.1	33.8	35.4	19.2	22.1	41.3	22.0	44.6	58.4	57.4	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Family of Tactical Trailers: Funding will provide for the procurement and sustainment of the Marine Corps Family of Tactical Trailers. Additionally, it will sustain the existing legacy tactical trailer fleet including the M101/M101A3 trailers designed for the High Mobility Multipurpose Wheeled Vehicle (HMMWV) and the M870A2E1 trailer designed for the Logistics Vehicle System (LVS)/Logistical Vehicle System Replacement (LVSR).

Medium Tactical Vehicle Replacement (MTVR) Trailers: The MTVR Trailer Program is a USMC initiative to replace the current M105 Cargo Trailer, M149 Water Trailer, and the M353 General Purpose trailer with trailers capable of augmenting the MTVR's increased mobility without degrading its operational capabilities. This program will develop and field trailers which will have greater mobility characteristics while maximizing the commonality of parts across the three trailer platforms.

Flatrack Refueling Capability (FRC): The Flatrack Refueling Capability (FRC) will consist of a 2500 gal (threshold) - 3000 (objective) gal tank, an onboard pump, filter assembly, and required hoses and equipment. The FRC will be able to provide refueling support to Marine Corps forces in unimproved locations.

The FRC is a LVSR-compatible system designed to provide over wing and under wing refueling and defueling for aircraft, and to provide refueling capability for the Force Service Support Group (FSSG) to meet its cross country requirements.

FY2011 Overseas Contingency Operations Request (OCO): \$22.1

OCO funding is required to address MEB-A Equipment Density List (EDL) shortfalls in MTVR Trailers (Water). The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

Exhibit P-40a, Budget Item	Justi	fication	n for Aggreg	jated Items	<u> </u>		Date:	ry 2010	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 05 Support Vehicles / 5097					P-1 Item Nome		•	CAL TRAILERS	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	
Light Tactical Trailers Heavy Chassis	A	D	9.121		1.941	0.344		0.344	
		Q	375		233	38		38	
Chassis Trailer- 3/4 Ton	Α	D		0.048	1.954				
		Q		5.0	260				
Integrated Logistics Support/PM Support	Α	D Q	5.429	1.300	1.522	1.5		1.5	
LVSR Trailer	A	D		3.138					
		Q		15					
Medium/Heavy Trailers	Α	D Q		0.073 3.0					
MTVR Trailers (Water)	Α	D		0.801	1.279				
		Q		9	14				
SEMI-TRLR, REFUELER, 5,000 GAL	A	D Q			1.113 4				
TRAILER, LOW BED, 40 TON, M-870A2	Α	D			2.326				
		Q			27				
FLATRACK PLS MK-18 LVS	A	D Q			0.169 16				
TRAILER, LOW BED, 50 TON, M-870AE	A	D			4.606				
		Q			50				
Flatrack Refueling Capability (FRC)					2.320				
Program Mmanagement Support	_		44.550	F 000	47.000	4.000	0.000	4.000	
Total Activ	_		14.550 14.550	5.360 5.360		1		1.892 1.892	
Reserv	-		0.000						

Exhibit P-5	Approp	riation/ Budg	et Activity/Se	rial No:		P-1 Line Item	Nomenclature):	Weapon Syste	em Type:		Date:		
Cost Analysis	Procure / 5097	ement, Marin	e Corps (110	9) / 05 Sup	port Vehicles	FAMILY C	F TACTICAL 1	TRAILERS					February 201	0
Weenen System		Prior Yrs					FY 09			FY 10			FY 11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline MTVR Trailers: MTVR Trailers (Cargo) MTVR Trailers (Water) MTVR Trailers (Water) MTVR Trailers (General Purpose) LRIP/First Article Testing, Test Support Training TDP/Engineering Drawings Program Management and Support Subtotal Baseline		6596 12957 2375 5546				22268 1972 490 989 1904 27623		80976 Var	12248 3348 1966 17562		94943 Var			97317
FY11 OCO MTVR Trailers (water) Program Management and Support Subtotal FY11 OCO TOTAL ACTIVE RESERVE		27474 27474 0				27623 27623 0			17562 17562 0			22091 39 22130 39394 39394 0	227	97317

	Exhibit P-5a, Budget Pro	curement	History and Planning					Date: Fe	ebruary 20	010
Appropriation / Budget Activity/Seria Procurement, Marine Corps	al No: s (1109) / 05 Support Vehicles / 5097	Weapon S	System Type:		P-1 Line It		enclature: amily of Taction	al Trailers	3	
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years MTVR Trailer		Type			Delivery				Avail	Date
FY09										
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-09	Sep-10	275	80976	YES	N/A	N/A
FY10										
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-11	Dec-11	129	94943	YES	N/A	N/A
FY11										
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-11	Mar-12	157	97317	YES	N/A	N/A
FY11 OCO										
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-11	Mar-12	227	97317	YES	N/A	N/A

	EX	(HIBI	IT P	-21, P	ROD	UCTI	ON	SCH	IEDU	JLE										Date:				ı	Febru	ary 20	010				
ppropriation Code/CC/BA/BSA/Item (Control No.						Wea	apon	Syste	m				P-1 It	em N	omen	clature	e:													_
rocurement, Marine Corps (1109) / 09	5 Support Vehicles	/ 509	7																	FAN	IILY (OF TA	CTIC	AL TRA	ILER	S					
								PRO	ODUC	TION	RATE					PR	ROCUI	REME	NT LE	ADTII	MES										
ГЕМ	Manufacturer's	NAM	E/LC	CATIC	N		М	SR	EC	ON	М	AX	ALT	Prior t 1	o Oct	ALT	After	Oct 1	Initia	al Mfg	PLT	Reor	der M	lfg PLT		TO	TAL		Ur	it of M	/leas
ITVR Trailers(Water/Cargo/General)	CMDC, McAlest	ter Ok	K					1		36	-	75					1			10			9		1	1	1			Е	_
K970 Semi Trailers	Heil Trailers, Ath							4		8		12					10						22		1		2			E	
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		F	S	Q	D	В	0	N	D	J	F	М	Α	М	J	J	Α	S	0	Ν	D	J	F	M	Α	М	J	J	Α	S	1
		Y	٧	T Y	E	A L	C	0 V	E	A N	E	A	Р	A Y	U	U	U G	E P	C T	O V	E	A	E B	A R	P R	A Y	U	U	U	E P	1
ГЕМ			С	Y	L	L		٧	С	IN	В	R	R	Y	N	L	G	ן א	'	V	С	N	В	К	К	Y	N	L	G	Р	1
TVR Trailers(Water/Cargo/Gene	ral)	FY08	MC	295	0	295	┢					1												Α	┢						-
TTVR Trailers (Water)	,	FY09		275	0	275																		A	1						2
MK970 Semi Trailers				73	0	73	1																12	12	12	12	7	6	6	6	f
MK970 Semi Trailers		FY07	_	85	0	85	1																		T -		5	6	6	6	1
																									1						T
							Fiscal Year 10																F	iscal Y	ear 1						
							Fiscal Year 10							Ca	lenda	r Yea	r 10							С	alend	ar Ye	ar 1	1			
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		F	S V	Q T	D E	B A	0	N O	D E	J A	F E	M A	A P	M A	Ŋ	J	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	
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ΓEM				•		_		-						-				-	-	-	-								_	-	
TVR Trailers(Water/Cargo/Gene	ral) F	FY08	МС	295	0	295			36	36	36	36	36	36	36	36	7														
TVR Trailers (Water)		FY09			0	275												29	36	36	36	36	36	36	30						
ITVR Trailers (Water)		FY10			0	129																		Α							1
ITVR Trailer (Water)		FY11	MC	384	0	384																		Α							3
1K970 Semi Trailers	F	FY07	MC	85	23	62	12	12	12	12	12	2					<u> </u>								<u> </u>						
							<u> </u>																		<u> </u>						ऻ_
Y11 MTVR Trailers baseline and OC								Ш																							上

Item No. 39 Page 5 of 6

		EXHIB	IT P-	21, PR	ODU	CTION	SCH	IEDU	JLE											Date	:				Febr	uary	201	0			
Appropriation Code/CC/BA/BSA/Item C Procurement, Marine Corps (1109) / 05		les / 50	97				Wea	apon	Syste	em				P-1	Item I	Nome	nclatı	ıre:	F	AMIL'	Y OF	TAC	TICA	L TI	RAIL	ERS					
								PRO	DUC	TION	RAT	Έ				PRO	CURE	MEN	IT LE	ADTII	MES										
ITEM	Manufacturer'	's NAM	IE / L	OCATI	ON		MS	SR	EC	ON	M	AX		T Prid Oct 1		ALT	After	Oct		Initia Ifg PL			eord fg PL			то	TAL		Unit (of N	/leasure
MTVR Trailers(Water/Cargo/General)	CMDC, McAle	ester, O	K				_	1	3	6	7	' 5					1			10			9			1	11	\exists		E	
											Fisc	al Ye	ar 12			\	40						Fisc		/ear			<u> </u>	<u> </u>	\Box	В
			1	1	1	_								Cal	lenda	r yea	r 12				1			- (alen	dar	Year	13	_		A L
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ITEM			Ľ	,		_				.,			.`		.,					·	Ŭ					Ċ		Ĺ	Ľ	_	Е
MTVR Trailers (Water) MTVR Trailers (Water)		FY10 FY11		129 384	0	129 384			36	36	36	21 15	36	36	36	36	36	36	36	36	36	36	9								0
MTVR Trailers (Water)		FYII	IVIC	364	U	364						15	36	36	30	36	36	30	30	30	30	36	9								U
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											Fisc	al Ye	ar 14										Fisc	cal \	ear (15		ш	ш	\dashv	В
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ITEM			С	Y	L	L	Τ	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	E
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	Exhibit P-4	10, Budget	Item Justifi	cation Sheet	t	Date:			Februar	y 2010			
Appropriation / Budget Procurement, Marine C			cles / 5132	P-1 Item Nome	enclature:			TRAILERS, A	LL TYPES				
Program Elements: 0206315M Force Service	ce Support Group	Code:	Other Related Pr	ogram Elements:									
	Prior Years			FY 2009	FY 2010	FY 2011	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Total Prog
Proc Qty													
Gross Cost	123.1			8.4	18.1	8.1	0.0	8.1	0.0	0.0	0.0	0.0	Cont
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	123.1			8.4	18.1	8.1	0.0	8.1	0.0	0.0	0.0	0.0	Cont
Initial Spares				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont
Total Proc Cost	123.1			8.4	18.1	8.1	0.0	8.1	0.0	0.0	0.0	0.0	Cont
Flyaway U/C													
Wpn Sys Proc U/C													

TRAILERS, ALL TYPES

The trailers line is made up of temporary facilities that will be purchased to accommodate the Marine Corps' Active Duty End Strength growth from the programmed 175,000 to 202,000. These consist of trailers, expeditionary shelters, & pre-fab structures along with pre-engineered buildings, strung structures, offices, storage containers, armories and sun shades. These shelters will be located throughout the Marine Corps at the following locations: Camp Lejeune, Camp Pendleton, Marine Corps Base Hawaii, Marine Corps Air Stations at Yuma, Miramar and Cherry Point, and the Marine Corps Air Ground Combat Center.

Exhibit P-5, Cost Analysis		Approp Procure Suppor	riation/ Budget Acti ement, Marine Corp t Vehicles / 5132	vity/Serial No: os (1109) / 05	P-1 Line It	em Nomeno LERS, ALL	clature: TYPES	Weapon Sy	/stem Type:				Date: Fel	bruary 201	0
Weapon System	Cost	ID	PRIOR YRS		FY 09			FY 10			FY 11			FY 12	
		CD	TotalCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Elements			\$000	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Family of Relocatable Trailers			123052	8399	VAR	VAR	18066	VAR	VAR	8075	VAR	VAR			
TOTAL ACTIVE RESERVE			123052 123052 0	8399 8399 0			18066 18066 0			8075 8075 0					
				•						Ü					

		Exhibit	P-40, Budg	et Item Just	ification Sh	eet			Date: Februa	ry 2010		
Appropriation / Budget Procurement, Marine C	•	upport Vehicles	s / 5230				P-1 Item Nomeno	clature:	ITEMS LESS	THAN \$5M		
Program Elements: 0206315M Force Servi	ice Support Group			Code: B	Other Related	Program Eleme	ents:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	102.7	5.4	5.9	6.0	0.0	6.0	6.1	6.2	6.4	6.5	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	102.7	5.4	5.9	6.0	0.0	6.0	6.1	6.2	6.4	6.5	Cont.	Cont.
Initial Spares												
Total Proc Cost	102.7	5.4	5.9	6.0	0.0	6.0	6.1	6.2	6.4	6.5	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

This is a roll-up line containing many different support vehicle related items of equipment less than \$5 million each. The funds included in this budget line allow procurement of the following items:

Motor Transport Modifications - Funds Marine Corps unique improvements to fielded Ground Transportation Systems, to include any required government or contractor configuration management for technology improvement insertions to increase Reliability Availability Maintainability-Durability (RAM-D), for total ownership life-cycle cost reductions, and to resolve unexpected vehicle safety concerns.

Marine Security Guards (Vehicles) - Provides various types of vehicles for the Marine Security Guard depending on the requirement of the command/country. The variety includes heavy duty vans, club wagons, caravans, land cruisers and mini-buses.

Exhibit P-40a, Budget Item Ju	stificati	on for	Aggregated	Items		Date:	ebruary 20	10		
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 05 Support Vehicles / 5	230			P-1 Item Non	nenclature:		S LESS TH	AN \$5M		
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
Motor Transportation Modification	A	D	69.4	4.131	2.756	2.803	0.000	2.803		
motor rransportation mounication	^	Q	VAR	VAR	VAR	VAR	VAR	VAR		
Marine Security Guards (Vehicles)	A	D	21.7	1.292	3.174	3.213	0.000	3.213		
		Q	VAR	VAR	VAR	VAR	VAR	VAR		
Tota			91.1	5.423	5.930	6.016	0.000	6.016		
Activ			91.1	5.423	5.930	6.016		6.016		
Reserve	s		0	0	0	0	0	0		

	Exhib	it P-40. Bud	dget Item Ju	ustification	Sheet			Date:				
										February 2010)	
Appropriation / Budget	•						P-1 Item Nome					
Procuremen	t, Marine Corps (11	109) / 06 Engin	eer and Other I	Equipment / 6	054			Environmenta	I Control Equip	ment, Assorted	d	
Program Elements:				Code:	Other Relate	d Program Ele	ments:					
0206315M Ford	ce Service Support	Group		Α	<u> </u>							
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	31.9	10.5	10.2	5.1	17.8	22.9	5.1	5.2	5.3	5.5	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	31.9	10.5	10.2	5.1	17.8	22.9	5.1	5.2	5.3	5.5	Cont	Cont
Initial Spares												
Total Proc Cost	31.9	10.5	10.2	5.1	17.8	22.9	5.1	5.2	5.3	5.5	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		4.4	4.3	4.3	0.0	4.3	0.8	0.8	0.8	0.8		

The Environmental Control Equipment program procures refrigeration units and commercial air conditioners for cooling, dehumidifying, heating, filtering, and circulating air within electronic maintenance shops, radar systems, communications centers, and data computer systems.

FY2011 Overseas Contingency Operations Request (OCO): \$17.8

The OCO funding will procure the replacement of Combat Losses in OEF/OIF and address MEB-A Equipment Density List (EDL) shortfalls of Environmental Control Units (ECU). The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

Exhibit P-40a, Budget Item Justification for A	ggrega	ated It	ems		Date:			F	ebruary 201	0			
Appropriation / Budget Activity				P-1 Item No	menclature:								
Procurement, Marine Corps (1109) / 06 Engineer and Other Ed	quipmer	nt / 605	4		1		Environi	mental Control	Equipment	, Assorted		1	
5	Code		D: V	E) / 0000	F)/ 00/0	Base FY2011	OCO FY2011	Total FY2011					
Procurement Items		UOM	Prior Years	FY 2009	FY 2010	F1ZUII	FTZUII	F12011					
<u>Baseline</u>													
Environmental Control Equipment (ECU) Integrated	Α	D	25.8	1.203	4.355	1.100		1.100					
		Q	VAR	VAR	VAR	VAR		VAR					
.75 Ton (9,000 British Thermal Units ((BTU)) ECU	Α	D	1.3	0.457	0.445	0.818		0.818					
		Q	167	60	50	90		90					
4.5.T., (40.000 PTI) FOU			4.5	0.404	0.670	0.00=		0.007			-		
1.5 Ton (18,000 BTU) ECU	Α	D Q	4.5 590	0.191	0.372	0.237		0.237 30			1		
		Q	590	24	43	30		30			 		
3 Ton (36,000 BTU) ECU	Α	D	1.0	2.175	0.350	0.663		0.663					
(Q	74	166	35	65		65					
5 Ton (60,000 BTU) ECU	Α	D	4.1	3.141	0.310	0.260		0.260					
		Q	133	165	17	14		14					
10 Ton (120,000 BTU) ECU	Α	D	1.8	0.595	0.225	0.229		0.229					
		Q	67	20	30	30		30					
Coroll Field Defineration Contact (CFDC)	^	D	0.5		4 457	4.400		4.400					
Small Field Refrigeration System (SFRS)	Α	Q	2.5 119		1.457 50	1.189 40		1.189 40					
		Q	113		30	40		40					
Large Field Refrigeration System (LFRS)	Α	D		1.667	1.634								
		Q		50	70								
Tool Kit Refrigeration	Α	D	2.6	0.361									
		Q	272	51									
		_	0.7	0 = : =		0.5		4.65.			-		
Warranties, Integrated Logistics Support (ILS) and Contractor	Α	D	2.0	0.745	1.077	0.614	0.447	1.061					
Logistics Support (CLS)		Q									 		
Subtotal Baseline			31.9	10.535	10.225	5.110	0.447	5.557					
Substitut Baseline			27.0	. 5.000		5.710	2.177	5.507					
Totals			31.9	10.535	10.225	5.110	0.447	5.557					
Active				6.174	5.885	0.766	0.447	1.213					
Reserve				4.361	4.340	4.344	0.000	4.344					

Exhibit P-40a, Budget Item Justification for A	ggreg	ated Ite	ems		Date:							
				5 4 1/2 N				F	ebruary 201	0		
Appropriation / Budget Activity			4	P-1 Item No	menclature:		F			A		
Procurement, Marine Corps (1109) / 06 Engineer and Other E	quipme	nt / 6054	4					mental Contro	Equipment	Assorted	1	1
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011				
Reserves												
Environmental Control Equipment (ECU) Integrated - Reserves	Α	D		0.816	1.985	0.967		0.967				
		Q		VAR	VAR	VAR		VAR				
.75 Ton (9,000 British Thermal Units ((BTU)) ECU - Reserves	А	D				0.409		0.409				
		Q				46		90				
1.5 Ton (18,000 BTU) ECU - Reserves	Α	D		0.096		0.237		0.237				
		Q		12		30		30				
3 Ton (36,000 BTU) ECU - Reserves	Α	D		1.162		0.663		0.663				
		Q		83		65		65				
5 Ton (60,000 BTU) ECU - Reserves	Α	D		2.016	0.310	0.260		0.260				
		Q		112	17	14		14				
10 Ton (120,000 BTU) ECU - Reserves	Α	D		0.090				0.000				
		Q		3				30				
Small Field Refrigeration System (SFRS) - Reserves	Α	D			0.728	1.164		1.164				
		Q			25	40		40				
Large Field Refrigeration System (LFRS) - Reserves	Α	D			0.817							
		Q			35							
Tool Kit Refrigeration - Reserves	Α	D		0.181								
		Q		25								
Warranties, Integrated Logistics Support (ILS) and Contractor	A	D			0.500	0.644	0.000	0.644				
Logistics Support (CLS) - Reserves		Q			3.300	3.311	5.500	0.011				
Subtotal Reserves	,			4.361	4.340	4.344	0.000	4.344				
Subtotal Reserves	•			4.301	4.340	4.344	0.000	4.344				

Exhibit P-5 Cost Analysis	Procure		t Activity/Serial Corps (1109) / 54	06 Engine			em Nomenclatental Control E Assorted		Weapon Sys			Date:	ebruary 201	0
		Prior Yrs		FY 09			FY 10			FY 11				
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
FY11 OCO														
ENVIRONMENTAL CONTROL EQUIPMENT ASSORTED									17352	VAR	VAR			
Total									17352					
Active Reserves									17352 0					

	Exhibit P-	40, Budget	Item Justif	ication Shee	et		Date:		Februa	ary 2010		
Appropriation / Budget	Activity/Serial No:					P-1 Item Nome	nclature:					
Procurement, Marine C	Corps (1109) / 06 E	ngineer and Otl	ner Equipment	/ 6274				Bul	k Liquid Equipr	nent		
Program Elements:				Code:	Other Related	d Program Eleme	ents:					
0206315M For	ce Service Support	Group		Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	TOTAL
Proc Qty												
Gross Cost	139.0	13.7	20.6	10.7	1.6	12.4	1.3	0.9	0.9	0.9	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	139.0	13.7	20.6	10.7	1.6	12.4	1.3	0.9	0.9	0.9	Cont	Cont
Initial Spares												
Total Proc Cost	139.0	13.7	20.6	10.7	1.6	12.4	1.3	0.9	0.9	0.9	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		1.2	1.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont

BULK LIQUID EQUIPMENT This line is a roll up line that contains the Lightweight Water Purification System (LWPS), the Tactical Water Purification System (TWPS), formerly the Enhanced Reverse Osmosis Water Purification Unit), and the Family of Water Supply Support Equipment. The LWPS is a small, modular, self-contained system that uses filtration and reverse osmosis technology to produce 75 to 125 Gallons Per Hour (GPH) of potable water from fresh, brackish, salt, and nuclear, biological, and chemical (NBC) contaminated water. This capability is necessary to provide safe and potable water to battalion sized or smaller units in an expeditionary environment or in extended company operations. TWPS provides the Marine Air Ground Task Force with an enhanced capability to produce potable water from salt, brackish, fresh, and nuclear, biological and chemical contaminated water sources at a rate of 1,500 GPH in expeditionary environments. The Family of Water Supply Support Equipment is comprised of 24 different items procured on a continuous buy. It includes all water assets associated with the storage, distribution and analysis of potable water, such as tanks, pumps, showers, water heaters, water test sets, containerized batch laundry units and the expeditionary water packaging system which places the purified water from the LWPS and TWPS into bags ranging from 1 to 3 liters. Funds combat operations, force protection, and replacement of equipment items; funds extended company operations; funds restoration of Marine Corps unit capability to pre-war level; and funds equipment for pre-deployment training.

FY11 Overseas Contingency Operations Request (OCO): \$1.6M

Procures replacement for Tactical Water Purification System (TWPS), Lightweight Water Purification System (LWPS) and Field Laundry Unit Combat Battle losses in OEF/OIF.

Exhibit P-5	Approp	riation/ Budget	Activity/Serial I	No:		P-1 Line Iter	n Nomenclatu	re:	Weapon Syst	em Type:	Date:
Cost Analysis			Corps (1109) / (06 Engineer a	and Other	Bulk	Liquid Equipr	ment			February 2010
	Equipm	ent / 6274	1	FY 09						FY 11	·
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	FY 10 Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline Bulk Liquid Equipment Water Purification Systems and various associated extended capability modules for cleaning/waste, Nuclear, Biological and Chemical Treatment/Survivability, ocean intake and cold weather operations)			8312	VAR	VAR	14322	VAR	VAR	8605	VAR	VAR
Family of Water Supply Support Equipment Various Tanks, Pumps, Pump Modules, Nozzles, Field Laundry Units, Interconnection Sets, Water Packaging,			4183	VAR	VAR	4550	VAR	VAR	844	VAR	VAR
Shower Units Subtotal Baseline			12495			18872			9449		
FY11 OCO Bulk Liquid Equipment Water Purification Systems and various associated extended capability modules for cleaning/waste, Nuclear, Biological and Chemical Treatment/Survivability, ocean intake and cold weather operations) Family of Water Supply Support Equipment Various Tanks, Pumps, Pump Modules, Nozzles, Field Laundry Units, Interconnection Sets, Water Packaging, Shower Units Subtotal FY11 OCO									167 1461 1628	VAR VAR	VAR VAR
TOTAL ACTIVE RESERVE			13744 12495 1249			20635 18872 1763			12371 11077 1294		
Reserves Bulk Liquid Equipment Water Purification Systems and various associated extended capability modules for cleaning/waste, Nuclear, Biological and Chemical Treatment/Survivability, ocean intake and cold weather operations)			1249	VAR	VAR	1763	VAR	VAR	1294	VAR	VAR
Subtotal Reserves			1249			1763			1294		

		Exhibit P	-40, Budge	t Item Justif	ication She	et			Date: Februai	ry 2010		
Appropriation / Budget A	•	ngineer and Oth	ner Equipment	/ 6277			P-1 Item Nome	enclature:	Tactical I	Fuel Systems		
Program Elements: 0206315M Forc	e Service Support	Group	Code: A	Other Related	Program Eleme	nts:						
	Prior Years	FY 2009	FY2010	FY2011 Base	FY2011 OCO	FY2011 Total	FY2012	FY2013	FY2014	FY2015	To Complete	TOTAL
Proc Qty												
Gross Cost	37.1	30.2	68.4	29.3	83.7	113.0	7.2	7.3	20.2	7.7	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	37.1	30.2	68.4	29.3	83.7	113.0	7.2	7.3	20.2	7.7	CONT	CONT
Initial Spares												
Total Proc Cost	37.1	30.2	68.4	29.3	83.7	113.0	7.2	7.3	20.2	7.7	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		2.9	5.2	4.8	0.0	4.8	0.0	0.0	0.0	0.0	CONT	CONT

Tactical Fuel Systems is a rolled line that contains highly versatile fuel systems designed to receive, store, transfer and dispense fuel in support of Marine Air Ground Tactical Force (MAGTF) operations ashore. This program provides over 108 various upgraded elastomeric components to Tactical Fuel Systems, Amphibious Assault Fuel System, Helicopter Expedient Refueling System, Expedient Refueling System, 500-Gallon Collapsible Fabric Drum, Tactical Airfield Fuel Dispensing System, 600 GPM Pump, Hose Reel System, Fire Suppression System and Tactical Petroleum Laboratory Medium, which have met or exceeded the shelf life time limit.

The Expeditionary Fuel System (EFS) is comprised of three primary components: a fuel storage and distribution capability (Ground Expedient Refueling Systems, GERS); a fuel analyzer to exploit captured fuels; and an integrated fuel quality and quantity reporting system (FAQQS) that interfaces with common logistics support systems. The Expeditionary fuel System will be fielded to all Operational forces, Reserve Forces and Maritime Prepositioned Ships (MPS).

Ground Expeditionary Refueling System (GRS) is a collection of small collapsible tanks, hoses, connectors and pumps used to distribute fuel to Marine Corps ground equipment. Transportable by any vehicle (HMMWV or larger), it requires only incidental operators and is easily set-up and operated. The GERS design has the capability to be tailored to use various logistics and weapons platforms as a fuel distribution vehicle, or as a range-extension capability for units possessing GERS. GERS is being produced in two configurations. Six 28-gallon collapsible bladders and associated dispensing equipment are grouped in small systems, and four 155-gallon bladders and equipment grouped similarly in medium systems. These provide a highly flexible and tailorable distribution capability that matches the requirements for sea-based warfighting, distributed operations, and special operations.

The Expeditionary Fuel System (EFS) Portable Fuel Analyzer (PFA) will enhance the current capability of the Tactical Fuel System (TFS) by providing the capability to identify and capitalize captured and indigenous fuel on the battlefield for real-time fuel management. The Portable Fuel Analyzer (PFA) is Man portable, hardened case, battery operated and Compatible with 24 volt

Exhibit P-40, Budget Item Justifi	cation Sheet	Date: February 2010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 06 Engineer and Other Equipment / 6277	P-1 Item Nomenclature:	Tactical Fuel Systems
military vehicle. The portable fuel analyzer is designed to identify acceptabl in the above warfighting scenarios. It identifies the acceptable type and qual lessens the logistics burden of supplying fuel from a sea-base or elsewhere.		
The Expeditionary Fuel System Integrated Fuel Quality and Quantity Romore efficient and timely logistics responsiveness. All three elements of the because of its bulk and weight.		, , ,
FY11 Overseas Contingency Operations Request (OCO): \$83.7	1	
Funds the procurement of Tactical Fuel System Principle End Item (PEI) rot Equipment Deficiency List (EDL), end of shelf life and Combat Loses. Items (13), Storage Module (300), 600 Gallon per Minute (GPM) fuel Pump and Si	represented include: 50K Tank (172), 20K Tank (11	

	,	Appropriation	on/ Budget /	Activity/Ser	ial No:	P-1 Line It	em Non	nenclature:	Weapon Sy	stem Ty	rpe:	Date:		
Exhibit P-5 Cost Analysis		Procuremer Engineer ar	,		,	Tactica	l Fuel S	ystems				Fel	oruary 201	0
	ГÌ	Prior Yrs		FY 09			FY 10			FY 11				
	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
Tactical Fuel System Components (Various Collapsible Fabric Tanks, 50K, 20K, 3K capacity) (Fuel Bladders, 500 gal) (Various Petroleum Test Kits, Fire Suppression Systems) (Various Pumps and Dispensers)		37100	25740	VAR	VAR	46832	VAR	VAR	6158	VAR	VAR			
Expeditionary Fuel System			4490	VAR	VAR	21540	VAR	VAR	23172	VAR	VAR			
Subtotal Baseline		37100	30230			68372			29330					
FY11 OCO														
Tactical Fuel System Components (Various Collapsible Fabric Tanks, 50K, 20K, 3K capacity) (Fuel Bladders, 500 gal) (Various Petroleum Test Kits, Fire Suppression Systems) (Various Pumps and Dispensers)									83698	VAR	VAR			
Subtotal FY11 OCO									83698					
Total Active Reserve		37100 37100	30230 27370 2860			68372 63130 5242			113028 108181 4847					
Reserves														
Tactical Fuel System Components (Various Collapsible Fabric Tanks, 50K, 20K, 3K capacity) (Fuel Bladders, 500 gal) (Various Petroleum Test Kits, fire Suppression Systems) (Various Pumps and Dispensers)			2860	VAR	VAR	5242	VAR	VAR	4847	VAR	VAR			
Subtotal Reserves			2860			5242			4847					

	Exh	ibit P-40, B	udget Item	Justification	n Sheet			Date: Februa	ry 2010			
Appropriation / Budg						P-1 Item Nom	enclature:	_				
Procurement, Marine Program Elements:	e Corps (1109) /	06 Engineer a	and Other Ed		6 Other Relate	ments:	Po	wer Equipme	nt Assorted			
0206315M FOR	CE SERVICE SI GROUP	JPPORT		А								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	96.3	52.1	54.8	19.4	41.5	61.0	22.8	23.3	25.2	26.1	Cont	Cont
Less PY Adv Proc												I
Plus CY Adv Proc												
Net Proc (P-1)	96.3	52.1	54.8	19.4	41.5	61.0	22.8	23.3	25.2	26.1	Cont	Cont
Initial Spares												
Total Proc Cost	96.3	52.1	54.8	19.4	41.5	61.0	22.8	23.3	25.2	26.1	Cont	Cont
Flyaway U/C												1
Wpn Sys Proc U/C							•					
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Family of Power Equipment - This joint DoD program includes mobile electric power equipment used throughout the Fleet Marine Forces and Reserves. These are centrally managed items. Sizes and types of Generators and Mobile Electric Power Distribution Systems range from 2 kW to 100 kW in both 60HZ and 400HZ. All generators are selected from the standard family of DoD Mobile Electric Power (MEP) sources Current generators are from the "Tactical Quiet Generator" (TQG) family. The generators are operationally linked with Command, Control, Communications, Computers and Intelligence (C4I), weapons systems, and all systems requiring electrical power. C4I systems are increasing in power demand, which continues to drive the demand for generators and power distribution sets. C4I and supported weapons systems readiness is directly affected as power equipment readiness decreases. Current average age of generators is greater than 20 years. This program is based on the continuous replacement of generators that have exceeded their life-cycles with ones that incorporate environmental, safety, and performance enhancements.

Advanced Medium Mobile Power Sources (AMMPS) With increasing Environmental Protection Agency (EPA) emission standards, the DoD is developing and will be fielding the AMMPS family towards the end of the decade. As the 10-year TQG contracts close-out, they will not be renewed and AMMPS will be the next generation of DoD standard generators.

Mobile Electric Power Distribution Systems (MEPDIS) provide a modernized standard family of Mobile Electric Power Distribution Systems to meet Marine Corps power requirements to support a variety of C4I systems and expeditionary forces. MEPDIS is a centrally managed, continuous fielding/replacement effort as systems are damaged, destroyed, or consumed during normal operations. MEPDIS consists of 20 separate components that are configured into capability sets.

Alternative Power Sources for Communication Equipment (APSCE)consists of a suite of devices used to provide power to operate communications equipment, computers and peripheral equipment in place of primary batteries (disposable, one time use, lithium batteries) and for scenarios where fuel powered generators are too large, too heavy or unsuitable for use. The purpose of the program is to reduce the use of limited availability batteries, especially hazardous material producing ones, to those applications where they are the only appropriate tactical choice.

On-Board Vehicle Power (OBVP) will field upgraded alternators and wiring harnesses to HMMWVs and MTVRs in theater to provide increased electrical capacity necessary to power improved Counter-improvised explosive device (IED) jammers and other on-board power accessories.

FY11 Overseas Contingency Operations Request (OCO): \$41.5M

Funding is required to replace combat losses in OEF/OIF and to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan.

Exhibit P-40a, Budget It	em Jus	tificatio	n for Aggreg	ated Items			Date:	February 201	n		
Appropriation / Budget Activity					P-1 Ite	em Nomencl	ature:	. Solutiny 2011			
Procurement, Marine Corps (1109) / 06 En	gineer aı	nd Other I	Equipment / 63	366				r Equipment As	sorted		
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011			
Alternative Power Sources for Communications		-	0.004	4.004	0.507	4.000	4.000	0.000			
/Electronic Equipment	A	D Q	9.281 VAR	1.061 VAR	2.597 VAR	1.000 VAR	1.000 VAR	2.000 VAR			
NAME AND TO A			4.055	4 400	0.500	0.005					
2KW MEP 531 (MEP=Mobile Electric Power)	Α	D Q	4.255 487	1.186 229	0.522 100	0.265 50		0.265 50			
(MEP=Mobile Electric Power)		Q	407	229	100	50		50			
3KW MEP 831	Α	D	2.484	3.533	1.063	1.128		1.128			
		Q	254	300	100	100		100			
5KW MEP 802	Α	D			0.129						
		Q			8						
10KW MEP 813	Α	D	2.294	0.089	0.462	0.237		0.237		+	
		Q	36	4	20	10		10			
10 KW MEP 803	A	D	1.826	0.091	2.752	2.807		2.807			
TO KW MET 003		Q	104	5	150	150		150			
30KW MEP 805	Α	D	2.520		1.616	4.088		4.088			
		Q	91		51	125		125			
30KW MEP 815	Α	D	0.352		0.366	0.373		0.373			
		Q	10		10	10		10			
60KW MEP 806	Α	D	3.678		1.950	3.158		3.158			
OUTVV IVIET 000		Q	VAR		52	80		80			
60KW MEP 816	Α	D Q	0.844 20		0.219 5	0.223		0.223			
		Ĭ	20		Ü						
100KW MEP 807	Α	D Q			2.661 40						
					40						
MEPDIS-R	Α	D	3.731			2.892		2.892			
(MEPDIS= Mobile Electric Power Dist Sys)		Q	VAR			VAR		VAR			
Floodlights	Α	D			0.275		0.360	0.010			
		Q			VAR		VAR	VAR			
Power Converters/Supplies/Chargers	A	D	6.044	1.867	4.731	1.240	1.436	2.676	-		
i ower convertera/ouppnes/Ondryers	Α	Q	VAR	VAR	VAR	VAR	VAR	VAR			
Analyzar Charger Pottorios	A	D	6.248	1.438	2.214	1.000	1.438	2.438			
Analyzer Charger Batteries	A	ם מ	VAR	1.438 VAR	2.214 VAR	VAR	1.438 VAR	2.438 VAR			
		_									
Power Equipment Logistics Support Items	Α	D Q	5.184 VAR	0.284 VAR	1.069 VAR	1.008 VAR	1.3 VAR	2.320 VAR			
Integrated ECU Trailer-Generator (ITEG)	Α	D	4.600								
(ECU=Enviornmental Control Unit)		Q	VAR								
OBVP-MTVR Vehicles	Α	D		1.295							
(OBVP=On Board Vehicle Power)		Q		5							
Denoughle Fragge		D		2.000							
Renewable Energy	Α	Q		2.000 VAR						-	
Totals			53.341 #VALUE!	12.844 12.844	22.626 22.626	19.419 19.419	5.546 5.546	24.965 24.965			
Active Reserve			#VALUE!	0.000	0.000	19.419	0.000	24.965 0.000			
I/C3CI VC				0.000	0.000	0.000	0.000	0.000			

Exhibit P-5 Cost Analysis		and Other	ent, Marine	Corps (11 t / 6366	Serial No: 09) / 06 En	gineer	Power E	em Nomeno Equipment /		Weapon Sys	stem Type:	Date: Fe	ebruary 20	10
Weapon System	D	Prior Yrs		FY 09			FY 10			FY 11 0C0				
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty	UnitCost \$	TotalCost \$000	Qty	UnitCost \$	TotalCost \$000	Qty	UnitCost \$			
<u>Baseline</u>														
On-Board Vehicle Power (MTVR Kits & Installation)		17235	1500	5	300000									
Power Equipment Assorted (Various Generators, 2KW, 3KW, 10KW 20KW, 30KW, 60KW, 100KW)			22357	VAR	VAR	14933	VAR	VAR						
Mobile Electric Power Distrib Sys Replace (MEPDIS-R)		8100	8185	VAR	VAR	7499	VAR	VAR						
Alternate Power Sources for Communications /Electronic						9742	VAR	VAR						
Integrated Logistics Support (OBVP)		8451	7205											
Baseline Subtotal		33786	39247			32174								
<u>FY11 OCO</u>														
Power Equipment Assorted (Various Generators, 2KW, 3KW, 10KW 20KW, 30KW, 60KW, 100KW)									21793	VAR	VAR			
Mobile Electric Power Distrib Sys Replace (MEPDIS-R)									5000	VAR	VAR			
Alternate Power Sources for Communications /Electronic Equipment (APSCE)									9197	VAR	VAR			
FY11 OCO Subtotal									35990					
TOTAL ACTIVE		33786 33786	39247			32174 32174			35990 35990					
RESERVE		33/80	39247			321/4			33390					

Exhil	bit P-5a, Budget Procurement His	story and PI	anning					Date:	ebruary 2	2010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 06 Engineer and Other	Equipment / 6366	Weapon Syste	em Type:		P-1 Line Item		re: Power Equipment A:	=		
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?	Date Revsn Avail	RFP Issue Date
FY09										
On-Board Vehicle Power (MTVR Kits & Installation)	OshKosh Truck Co., Oshkosh, WI	FFPO	Contracts, Quantico, VA	Apr-10	Jan-11	5	300000	Y	N/A	N/A
REMARKS:			.1				1			

EXHIBIT P-21, PRODUCTION SCHEDULE																			L	Date:					Sep	tembei	r 2009	,			
Appropriation Code/CC/BA/BSA/Item Control No.							Weapo	n Syst	tem					P-1 It	em No	mencla	ature:														
Procurement, Marine Corps (1109) / 06 Engineer and Other E	Equipment / 6366																				Pov	ver Ed	quipm	ent A	ssorte	i					
								PRC	DDUCT	TION F	RATE					PRO	CURE	MENT	ΓLEA	DTIM	ES										
	M	2047	ION.				140	\D		CON		AX	ALT	Prior t	o Oct	ALT A	After O	ct 1	Initial		Mfg	Reor	der	Mfg							
TEM	Manufacturers NAME / LC	JCAI	ION				MS	oK .	EC	ON	IVI	AX		1						PLT			PLT			TO	TAL		Unit of	Measu	ure
ON-BOARD VEHICLE POWER (400AMP ALTERNATOR)	C.E. NIEHOFF & AMP CO	., Eva	nston	, IL			12	25	13	25	2	50					6			2						8	В			Е	
DN-BOARD VEHICLE POWER (HMMWV VEHICLES)	AM GENERAL, South Ben	d, IN					2			2		4					1			3						- 4	4			Е	
DN-BOARD VEHICLE POWER (HMMWV KITS)	OSHKOSH TRUCK CO. O	SHKC	SH, V	VI			2	2		2		4					1			8						,	9			Е	
DBVP INTEGRATION INSTALLATION/DEPOT	ALBANY MAINTENANCE	CENT	ER, A	LBANY	GA				50	00	5	00								1							1			Е	
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											Fiscal	Year 0	8								-			Fisc	al Yea	r 09					
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	Manufacturer's NAME / LOCATION					20				<u> </u>									-00	500	500	500	500	500	500	500	Α	500	500	500	1
DBVP INTEGRATION KIT INSTALLATION/DEPOT						6000				-								Α :	500	500	500	500	500	500	500	500	500	500	500	500	-
FY09										-																	\vdash	├		-	+
	Manufacturer's NAME / LOCATION					5			-	1																_	\vdash	<u> </u>		A	╁
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ON-BOARD VEHICLE POWER (400AMP ALTERNATOR)					2750	3250	250	250	250		250	250	250	250	250	250	250	250 2	250												
DN-BOARD VEHICLE POWER (HMMWV VEHICLES)						11	2	2	2	2	2	1																	<u> </u>		
ON-BOARD VEHICLE POWER (HMMWV KITS)		08	MC	20	0	20					2	2	2	2	2	2	2	2	2	2										<u> </u>	
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ON-BOARD VEHICLE POWER (MTVR KITS & INSTALLATIO	ON)	09	MC	5	0	5				<u> </u>	<u> </u>		Ш		1	1	1	1	1								\sqcup	ـــــ	Ļ—	↓	1
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			and Other Eq	uipment / 651		P-1 Item Nor	nenclature:	Amphik	oious Support	Equipment			
Program Elements: 0206211M Divisions	(Marine)				Other Relate	d Program Ele	ements:						
	Prior Years	FY 2014	FY 2015	To Complete	Total								
Proc Qty		Code:											
Gross Cost	84.4	24.7	28.8	11.7	0.0	11.7	5.5	10.9	6.3	5.2	CONT	CONT	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	84.4	24.7	28.8	11.7	0.0	11.7	5.5	10.9	6.3	5.2	CONT	CONT	
Initial Spares	2.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Total Proc Cost	86.7	24.7	29.1	11.7	0.0	11.7	5.5	10.9	6.3	5.2	CONT	CONT	
Flyaway U/C													
Wpn Sys Proc U/C													
Reserves	4.5	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	CONT	

Combat Rubber Reconnaissance Craft (CRRC) - Small, lightweight, inflatable rubber boat utilized as forward-deployed raid platform for small team insertion and extraction. In FY10, CRRC is realigned to the Underwater Reconnaissance Capability (URC).

Family of Raid/Recon Equipment (FRRE)- Roll-up line with multiple specialized raid projects encompassing the close quarter battle ensemble used in various Marine units and parachuting equipment used for reconnaissance in support of landing force operations. Includes component sets and ancillary equipment which will provide integration to warfighting concepts of the 21st century. Program will enhance the means to systemize equipment and increase combat multipliers, survivability, durability and functionality over that of the current inventory items.

Joint Precision Air Drop System (JPADS) - Parachute delivery system consists of a decelerator (parachute) guided by an Autonomous Guidance Unit attached to a Container Delivery System that interfaces with cargo aircraft for autonomous delivery of airborne cargo from high altitudes and lateral separation to predetermined small drop zone. Capability provides increased air carrier survivability; ground accuracy standoff delivery; and improved effectiveness and assessment feedback for airdrop missions. JPADS family consists of end items to include Mission Planner (laptop with airdrop mission planning software) and several variants based on gross rigged weight to include Ultra-Lightweight System, 2K pound (lb) System, and 10K pound (lb) System.

Underwater Breathing Apparatus (UBA)- Basic life support system required to perform closed-circuit (no bubbles) diving operations. In FY10, UBA is realigned to Underwater Reconnaissance Capability (URC).

Underwater Reconnaissance Capability (URC)- Overarching Family of Systems which sustains/enhances capabilities of current and future combatant diving systems to include CRRC, UBA, Combatant Diver Full Face Mask, Waterproof Bag System, Expeditionary Hyperbaric Chamber System, and the Multi-fuel Engine. FY10 efforts include procurement of Tactical Hydrographic Survey Equipment (THSE) which provides electronic subsurface hydrographic charting of landing beach approach lanes. PR11 funds the remaining THSE in FY13/14.

Bridge Components - The Bridge Boat line is a roll up line that provides wet gap capabilities with a system comprised of Improved Ribbon Bridge, Bridge and Raft Sets, Bridge Erection Boats, trailers, cradles and pallets allowing transport and passage of 80 ton tracked or 100 ton wheeled vehicles. The components are configured in Bridge Sets or Raft Sets to create an Improved Ribbon Bridge system. A Bridge Set consists of 12 interior and 5 ramp bays. A Raft Set consists of 5 interior and 2 ramp bays. The distance of the wet gap to be spanned and the water current velocity determines the use of the Bridge Set or the Raft Set and the number of Bridge Erection Boats needed to emplace the Bridge System. This effort fulfills the operational requirements to support bridging and amphibious operations for three active Bridge Companies, two reserve Bridge Companies, and three prepositioning squadrons. Beginning in FY11 all Improved Ribbon Bridge Components funding is in BLI 6548 Bridge Boats.

Exhibit P-40a, Budge	t Item	Justifi	cation for A	ggregated I	tems			Date: Februar	y 2010
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 06 Engineer and Other	Equipr	ment / 6	518				P-1 Item Nom Amphibiou	nenclature: us Support Eq	uipment
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY 2011	OCO FY 2011	Total FY 2011	
Combat Rubber Reconnaissance Craft	Α	D	6.630	1.141	0.000	0.000	0.000	0.000	
		Q							
Underwater Breathing Apparatus	Α	D Q	7.582	0.377	0.000	0.000	0.000	0.000	
TOTAL			14.212	1.518	0.000	0.000	0.000	0.000	
Active Reserves									

	Appro	oriation/ Budge	t Activity/Ser	ial No:	P-1 Line Iten	n Nomenclat	ure:	Weapon Syst	em Type	Date:	
Exhibit P-5 Cost Analysis		ement, Marine eer and Other E			Amphibio	us Support E	quipment			Februa	ry 2010
		Prior Yrs		FY09			FY10			FY11	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline											
FAMILY OF RAID/RECON EQUIPMENT Parachute Systems, Special Purpose Equip and Support		18552	6888	VAR	VAR	3203	VAR	VAR	3221	VAR	VAR
JOINT PRECISION AIR DROP SYSTEM (JPADS) Family of JPADS Systems and Support		6594	815	VAR	VAR	5583	VAR	VAR	5914	VAR	VAR
UNDERWATER RECON CAPABILITY Dive and Boat Systems and Support		4535	4524	VAR	VAR	8468	VAR	VAR	2583	VAR	VAR
BRIDGE COMPONENTS Includes various quantities of Interior Bays, Ramp Bays, Bridge Erection Boats, Boat Trailers, Cradles and Pallets		0	11000	VAR	VAR	11533	VAR	VAR			
Subtotal Baseline		29681	23227			28787			11718		
TOTAL ACTIVE RESERVE		29681 25229 4452	23227 23227 0			28787 22825 5962			11718 11718 0		
Reserves											
BRIDGE COMPONENTS Bridge Erection Boats, Boat Trailers and Boat Cradles			0			5962	VAR	VAR			
Subtotal Reserves			0			5962			0		

	Exhibit P-5a, Budget Procur	ement Hi	story and Planning					Date: Fe	ebruary 2	2010
Appropriation / Budget Activity/Serial N Procurement, Marine Corps (1109) / 06		Weapon	System Type:		P-1 Line		nenclature: ibious Suppo	rt Equir	oment	
6518										
WBS Cost Elements:	Contractor and Location	Contract Method		Award	Date of First	QTY	Unit Cost \$	Specs Avail?	Date Revsn	
Fiscal Years	•	& Type		Date	Delivery	Each		Avail?	Avail	Date
FY07										
Multi-Fuel Engine	Bombardier RP US, Inc., Sturtevant WI	GSA	MARCORSYSCOM	Jul-09	Dec-09	588	15000	Yes	N/A	N/A
REMARKS:				•						

		P-2	21, PF	RODUC	CTION	SCHE	DULE													Dat	e:				Febr	uary	2010)			
Appropriation Code/CC/BA/BS Procurement, Marine Corps (1		d Other	· Equip	oment /	6518			pon S						P-1	Item				Α				uppe	ort E							
								PROD	DUCT	ION F	RATE				PR	OCI	URE	MEI	NT L	EAD	DTIM	1ES									
ITEM	Manufacturer's	NAME	/ LO	CATION	١		M	SR	EC	ON	MA	λX	ALT	Pric Oct 1			.T Af Oct 1			Initia Ifg P			Reor Ifg F			TC	TAL			Unit Meas	t of sure
Multi-Fuel Engine	Bombardier RF	PUS, Ir	ıc., Stı	urtevant	t WI		6	0	8	30	12	25					33			5							38			E	:
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ITEM.		D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U Z	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	Α	A P R	M A Y	J U N	J J	A U G	S E P	N C E			
ITEM			С																			H	H	+ "	+	+		1	_		
Multi-Fuel Engine ACTIVE Multi-Fuel Engine RESERVE		FY07 FY07		514 74	0	514 74																E						A A	\sqsubseteq		514 74
																									L				上		
																							L		Ļ				\vdash		
											Fisca	I Yea	ar 10									Π	F	isca	Yea	r 11					B A L A
													c	Calen	ndar `	ear/	10								Cale		Year	11			N C E
ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	Р	M A Y	J U	J U L	A U G	S E P	
Multi-Fuel Engine ACTIVE		FY07		514	0	514			100	100	100			88																	0
Multi-Fuel Engine RESERVE		FY07	MC	74	0	74						37	37									-	+	+	┢	-		-	₩	\vdash	0
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REMARKS:																													<u></u>	L	
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	Exhibit	P-40, Budget	Item Justifica	ation Sheet				Date:		February 2010		
Appropriation / Budget Activity/Serial No:						P-1 Item Nomer	clature:					
Procurement, Marine Corps (1109) / 06 Eng	ineer and Other E	quipment / 6520)						EOD Systems			
Program Elements:				Code:	Other Related F	rogram Element	s:					
0206315M Force Service	Support Group			Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	4849.0	1342.2	140.7	64.1	214.0	278.1	54.4	160.6	186.6	197.0	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4849.0	1342.2	140.7	64.1	214.0	278.1	54.4	160.6	186.6	197.0	Cont	Cont
Initial Spares												
Total Proc Cost	4849.0	1342.2	140.7	64.1	214.0	278.1	54.4	160.6	186.6	197.0	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ADVANCED MINEFIELD DETECTOR (AMD) will be employed by the Combat Engineers in the Combat Engineer Support Battalions, Engineer Support Battalions and the Marine Wing Support Squadrons to fulfill operational mine detection requirements. The system will detect mines in designated areas throughout the theater to expand breach lanes and to assist in countermine clearance efforts. AMD is a man-portable system capable of detecting both metallic buried mines regardless of fuse types. Metal detectors will be used to detect caches. Demolition sets provide all of the tools required to build, prime and initiate explosive charges electrically, non-electrically and remote control. The minefield marking set is used to mark cleared lanes through a minefield or hazard area. These items included demolition sets, explosive initiating demolition sets, ine charge kits and minefield marking sets. The Advanced Mine Detector uses ground penetrating radar and traditional metal detection to detect landmines.

ASSAULT BREACHER VEHICLE (ABV) is a tracked, armored combat engineer vehicle designed to breach minefields and complex obstacles and provide a deliberate and in-stride breaching capability. ABV consists of a rebuilt and upgraded M1A1 Tank chassis with the integration of Non-Developmental Items (NDI), which includes a Full-Width Mine Plow, a Dozer Blade, a Surface Mine Plow, a Rapid Ordnance Removal System, two Mk 155 Linear Demolition Charges, a lane marking system and a self-defense weapon system. The ABV will provide crew protection and vehicle survivability while having the speed and mobility to keep pace with the maneuver force. The M1A1 Tank Chassis will provide economic supportability of the system through its commonality with the tank fleet and armor protection for survivability.

COUNTER RCIED ELECTRONIC WARFARE (USMC CREW) SYSTEMS: USMC CREW systems are vehicle mounted or man portable modular programmable multi-band radio-frequency jammers designed to deny enemy use of selected portions of the radio frequency spectrum in the vicinity of the jammer to counter the Radio-Controlled IED threat. The systems protect Convoy elements against the threat of Radio controlled improvised explosive devices (RCIEDs). CREW Increment 2.0 systems (Chameleon and Hunter) consist of a Ground Electronic Countermeasure (G-ECM) system and a vehicle installation kit (VIK). CREW Increment 2.1 (Jan 2009) consists of the CREW Vehicle Receiver Jammer (CVRJ) which is designed to meet the additional capability requirements established in the SON dated 5 Aug 08. Increment JCREW 3.3 is a system of systems scheduled for FY13 which will replace the 2.1 mounted and 3.1 man portable systems and provide Marines on foot, in vehicle convoys and at fixed locations with the necessary protection from the continued and evolving threat of these deadly RCIEDs in all current and future operations.

MINE RESISTANT AMBUSH PROTECTED (MRAP) VEHICLES: The MRAP Family of Vehicles (FoV) provides Warfighters multimission platforms capable of mitigating Improvised Explosive Devices (IEDs), underbody mines, and small arms fire threats, which are currently the greatest casualty producers in Overseas Contingency Operations (OCO). Four vehicle categories (CATs) are being procured, fielded, and sustained: MRAP-All Terrain Vehicle (M-ATV) – Combat operations (ops) in rural, mountainous, urban terrain. Category I – Urban combat operations, ambulance. Category II – Multi-mission ops-convoy lead, troop transport, ambulance, utility vehicle. Category III – Mine/IED clearance ops, explosive ordnance disposal. Funding includes required GFE/subsystems. MRAP-AQD=2225: M-ATV AAD=1.420: TAMCN=Various.

M9 ARMORED COMBAT EARTHMOVER (ACE) MODERNIZATION: The M9 ACE is a force multiplier for the combat engineer, performing mobility, counter mobility and survivability missions. The M9 is a highly mobile, fully tracked, armored earthmover capable of supporting forces in both offensive and defensive operations, performing critical combat engineer tasks, such as preparing hull defliade fighting positions for guns and tanks and preparing protected positions for other critical battlefield systems to increase their survivability. Marine Corps Modernization Kit (includes System Improvement Package (SIP) 4 configuration changes to Steel Flanges, Power Pack Removal, Crew Cooling System, One Inch Aluminum Bottom, Steel Apron and Blade, Integrated Vision System, Hydraulic System and Stowage Rack

FAMILY OF EOD EQUIPMENT: To support Marine operating forces, national security strategy, and force protection by locating, accessing, identifying, rendering safe, neutralizing, and disposing of hazards from foreign and domestic, conventional, chemical, biological, radiological, nuclear, and high yield explosives (CBRNE), unexploded explosive ordnance (UXO), improvised explosive devices (IEDs), and weapons of mass destruction (WMD) that present a threat to operations, installations, personnel, or materiel. The Explosive Ordnance Disposal (EOD) mission provides a means to neutralize the hazards associated with explosive ordnance that are beyond the normal capabilities of other specialties that present a threat to operations, installations, personnel, or material. The Family of EOD Equipment accomplishes this mission by detecting, identifying, rendering safe, recovering, evacuating and disassembling, and/or disposing of unexploded ordnance with a variety of tools which include Modernized Demolition Initiator, Hook and Line Kit, Non-Invasive Fille Identification Tool, EOD Man Portable Robotics, Tele-Present Remote Aiming Platform, Self Contained Breathing Apparatus (SCBA), EOD Chemical Biological Nuclear Radiological Equipment (CBRNE), and Advanced Ordnance Locators.

FAMILY OF EOD EQUIPMENT for VEHICLE INTERCOMS (TOCNET): TOCNET is a robust and full featured digital intercommunications system. TOCNET can be found at a variety of USMC units, and recently was selected to be the intercommunication system for all DoD Mine Resistant Ambush Protected (MRAP) vehicles.

Z Backscatter Van (ZBV Ruggedization Upgrade): Removes the ZBV scanning equipment from the current COTS configured chassis and mounts it onto a military trailer that is more appropriate for use in theater operations. The ZBV is a low-cost, extremely maneuverable "drive-by" screening system that allows one or two operators to conduct X-ray imaging of suspect vehicles and objects.

Rapiscan Secure 1000: The system produces high resolution images that enable the operator to easily identify concealed threat and contraband items. The Rapiscan Secure 1000 is ideal for high security environments because both organic (e.g. explosives, narcotics, ceramic weapons) and inorganic (e.g. metal) materials are apparent in the image.

Exhibit P-40, Budget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 06 Engineer and Other Equipment / 6520		EOD Systems

JOINT ASSAULT BRIDGE (JAB) is an armored vehicle used for rapidly employing, short-gap, assault crossing system, capable of spanning natural and manmade obstacles up to 60 feet (18.29) while under fire for up to Military Load Class (MLC) 70-ton vehicles. The JAB consists of a rebuilt and upgraded M1A1 Tank chassis with existing MLC70 scissors bridge and a commercial launcher. The JAB will provide the MAGTF with the capability to conduct assault and tactical wet and dry gap crossings in all types of climate and terrain, including slopes, trenches and vertical steps. The M1A1 based launcher will provide the survivability, maintainability and maneuverability required to keep pace with the maneuver force.

LIGHTWEIGHT MINE ROLLERS - can be attached to wheeled vehicles to counter pressure initiated Improvised Explosive Devices threats. The rollers can be mounted to HMMWV, MTVR, LAV, and JERRV/Cougar vehicles to minimize damage to vehicles and, more importantly, prevent injury or loss of life to those Marine/Sailors/Soldiers in the vehicle crew compartment. Increased demand and use of rollers are decreasing current inventory levels at rapid rate.

ROUTE CLEARANCE FAMILY OF SYSTEMS (RC FOS): Provides capabilities not found in the current Joint land force structure to defeat explosive hazards and protect Marines and equipment while conducting route and area clearance operations. The FoS for Route Clearance will enable Commanders to deliberately operate in explosive hazards environments by detecting and marking explosive hazards, enabling the Commanders to make timely and informed decisions to avoid the explosive hazards, or, if necessary, neutralize explosive hazards that impede their missions. Multiple detection and marking capabilities will detect a broader spectrum of explosive hazards and achieve higher overall effectiveness rates. Standoff and remote-controlled detection and marking capabilities will remove Joint forces from direct contact with explosive hazards and enhance force protection and the vehicles' system survivability. Operational speeds and rates will increase and better support the operational tempo (OPTEMPO) of the current and future force.

SPIDER SMART MINE SYSTEMS: Ground emplaced networked munitions system that will replace persistent anti-personnel landmines. The Spider munitions system supports the Joint Operation Concepts of Major Combat Operations, Stability Operations and the Joint Functional Concepts of Protection, Force Application and Focused Logistics to support Marine Expeditionary Forces.

FY11 Overseas Contingency Operations Reguest (OCO): \$213.9M

COUNTER RCIED ELECTRONIC WARFARE (USMC CREW) SYSTEMS: USMC CREW 2.1 CREW Vehicle Receiver Jammer (CVRJ) System Band C Upgrade. CREW systems are designed to jam threats within the frequency spectrum that have been identified by theater commanders. Current systems jam the Band A and Band B range (actual freq spectrum classified). Threats in the higher Band C ranges have been identified by JIEDDO and the Joint Threat Working Group as near term and must be addressed. This upgrade will not replace existing systems. It will be an adjunct device to be installed alongside existing jammers to increase the spectrum coverage.

ROUTE CLEARANCE FAMILY OF SYSTEMS (RC FOS): Provides R2C equipment to accomplish HST prior to OEF deployment. Accellerates procurement of items needed to field 8 sets of R2C requested by MARFORCOM to provide HST capability ISO OEF PTP. This request will fund procurement of ancillary equipment (rollers, robots, detection systems, etc.) to complement available MRAP vehicles. Based on operational lessons learned MARCENT has requested that MEB Route Clearance capability be doubled to address IED threat. Three sets of R2C are currently programmed for each MEB. Accellerates procurement of items needed to field additional 3 sets of R2C per MEB and 6 sets for an in-theater Operational Readiness Float (ORF). This request will fund procurement of ancillary equipment (rollers, robots, detection systems, etc.) to complement available MRAP vehicles and contractor support needed to manage the complicated logistics associated with this program.

Exhibit P-40a, Budget Item Justificat	ion fo	r Aggr	egated Iter	ns		Date: Februar	ry 2010			
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 06 Engineer and Othe				P-1 Item No E	menclature: OD SYSTEM	•				
Procurement Items	Code	UOM	Prior Year		FY 2009 (\$M)	FY 2010 (\$M)	Base FY 2011 (\$M)	OCO FY 2011 (\$M)	TOTAL FY 2011 (\$M)	
Advanced Mine Detector					1.764 VAR	2.666 VAR				
Mobile Power Integrated Trailer, ECU and Generator						.224 5				
TOTAL			0.000		1.764	2.890	0.000	0.000	0.000	
-										

5.177.550		propriation/ Budg	-			P-1 Line		Weapon Sys	tem Type:	Date:	
Exhibit P-5 Cost Analysis		ocurement, Marin her Equipment / 6) / 06 Eng	gineer and	Nomenclatu Syste				Februa	ry 2010
Wassan Contain	_	Prior Vrs		FY 09			FY 10			FY 11	
Weapon System Co Elements	St ID		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
Assault Breacher Vehicle		82178	20010	6	3335000	18266	6		18267	6	3044415
Ancillary Equipment (Plows, Blades, Rapid Ordnance			4990	VAR	VAR	2425	VAR	VAR	2928	VAR	VAR
			25000			20691			21195		
Armored Combat Earthmover (ACE) SIP 4						19008	VAR	VAR			
Counter RCIED Electronic Warfare (USMC CREW)											
Increment 2.1 - CREW Vehicle Receiver Jammer (CVRJ)		149141	175860	2723	65000						
Increment 2.1 Band C Upgrades		143141	12753	425		5096	170	30000	12199	406	30000
Increment JCREW 3.3			12700	720	00000	0000		00000	12100	400	00000
Support Equipment		9248	5300	VAR	VAR						
Initial Spares		18093	11932	VAR							
•		6077	8000	VAR							
Initial Support			8000			0005	1/45				
Program Support/Engineering Change Proposals (ECP)		802	040045	VAR	VAR	6085	VAR	VAR	40400		
EOD		183360	213845			11181			12199		
EOD specialized Equipment and Tool Kits		6766	49655			17478	VAR	VAR	10852	VAR	VAR
		1932	6388	VAR	VAR	3743	VAR	VAR	10652	VAR	VAR
Engineer Range Remote Firing Devices		1932		VAR	VAR				10852		
			56043			21221			10852		
Joint Assault Bridge											
Bridge Launcher			3800	2	1900000	12000	8	1500000			
Dozer Blade			420	2	210000	1600	8	200000			
Vehicle Integration			4200			10035					
Program Support & Rebuild			1713			4000					
			10133			27635					
Lightweight Mine Rollers						7650	VAR	VAR			
Mine Resistant Ambush Protected Vehicles											
Vehicles		1912581	429538	991	433439						
GFE	I	775311	410458	VAR							
Logistics	I	564600	131992	VAR							
Upgrades	1	475269	50763	VAR							
Automotive Testing	1	123538	249	VAR							
Facilities/Other	1	18824		VAR	VAR						
		3870123	1023000								
Route Reconnaissance and Clearance Family of						21758	VAR	VAR	19847	VAR	VAR
Various core platforms (Cougar, Buffalo, Husky vehicles)	I					2.730	VAIN	VAIN	10047	VAIC	VAIC
with Lightweight Mine Rollers, Robots, Vehicle Mounted	I										
Mine Detectors, Ground Penetrating Radar, Lightweight	1										
Spider Smart Mine Systems						8710	VAR	VAR			
Z-Backscatter Ruggedized Trailer	I		12411	8	1551375						
Subtotal Basel	ina		1340462	0	10010/0	137854			64093		
Subtotal Basel	He		1340402			137034	l	1	04093	1	

Exhibit P-5 Cost Analysis	Proc	ropriation/ Budge curement, Marine er Equipment / 6	e Corps (1109		ineer and	P-1 Line Nomenclatu Syster	re: EOD	Weapon Sy	stem Type:	Date: Febru	uary 2010
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost	TotalCost	FY 09 Qty Each	UnitCost	TotalCost	FY 10 Oty Each	UnitCost \$	TotalCost	FY 11 Qty Each	UnitCost \$
FY11 OCO Counter RCIED Electronic Warfare (USMC CREW)		\$000	\$000		\$	\$000			\$000		·
CREW Vehicle Receiver Jammer (CVRJ) Band C Support Equipment Initial Spares Initial Support Program Support/Engineering Change Proposals (ECP)									172590 660 173250	VAR	30000 VAR
EOD EOD specialized Equipment and Tool Kits Route Reconnaissance and Clearance Family of									11013	VAR	VAR
Various core platforms (Cougar, Buffalo, Husky vehicles) with Lightweight Mine Rollers, Robots, Vehicle Mounted Mine Detectors, Ground Penetrating Radar, Lightweight Route Clearance Blades									29722	VAR	VAR
Subtotal FY11 OCO									213985		
Subtotal Baseline			1340462			137854			64093		
Total Active Reserves	:		1340462 1340462 0			137854 137854 0			278078 278078 0		

	Exhibit P-5a, Budget Procure	ement History	y and Planning					Date: Fe	bruary 2	010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 06 Engine	eer and Other Equipment / 6520	Weapon Sy	ystem Type:		P-1 Line It	tem Nome	enclature: EOD Syste			
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years		Туре		Baic	Delivery	Lacii		/ (Vall:	Avail	Date
ABV										
FY09	Anniston Army Depot, AL	MIPR	TACOM, Warren, MI	Feb-09	Jan-10	6	3335000	Yes	No	N/A
FY10	Anniston Army Depot, AL	MIPR	TACOM, Warren, MI	Jan-10	Nov-10	6	3044333	Yes	No	N/A
FY11	Anniston Army Depot, AL	MIPR	TACOM, Warren, MI	Nov-10	Nov-11	6	3044415	Yes	No	N/A
Counter RCIED Electronic Warfare (USMC CREW)										
FY08 CREW Vehicle Receiver Jammer (CVRJ)	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Mar-09	Jun-09	2277	65499	N/A	N/A	N/A
FY09 CREW Vehicle Receiver Jammer (CVRJ)	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Mar-09	Aug-09	2723	65000	N/A	N/A	N/A
FY09 CREW CVRJ Band C Upgrade	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Sep-10	Apr-11	425	30000			
FY10 CREW CVRJ Band C Upgrade	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Sep-10	Apr-11	170	30000	N/A	N/A	N/A
FY11 CREW CVRJ Band C Upgrade	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Sep-10	Apr-11	406	30000			
FY11 OCO										
FY11 CREW Vehicle Receiver Jammer (CVRJ) Band C upgrade	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Apr-10	Jun-11	5753	30000	N/A	N/A	N/A
Joint Assault Bridge										
FY09 - Bridge Launcher	BAE Land Systems, UK	FFP	MCSC, Quantico, VA	May-10	Apr-11	2	1900000	Yes	N/A	N/A
FY09 - Dozer Blade	Pearson LTD, UK	FFP	MCSC, Quantico, VA	May-10	Apr-11	2	210000	Yes	N/A	N/A
FY10 - Bridge Launcher	BAE Land Systems, UK	FFP	MCSC, Quantico, VA	May-10	May-11	8	1500000	Yes	N/A	N/A
FY10 - Dozer Blade	Pearson LTD, UK	FFP	MCSC, Quantico, VA	May-10	May-11	8	200000	Yes	N/A	N/A
FY10 - Bridge Launcher	BAE Land Systems, UK	FFP	MCSC, Quantico, VA	Dec-10	Oct-11	8	1551375	Yes	N/A	N/A
Remarks:										

	Exhibit P-5a, Budget Procure	ement History	/ and Planning					Feh	oruary 2	2010
Appropriation / Budget Activity/Serial No:		Weapon Sys	stem Type:		P-1 Line It	em Nome	enclature:	1 61	71 dai y 2	_010
Procurement, Marine Corps (1109) / En	gineer and Other Equipment (6)		,,				EOD SYSTEM	/IS		
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFF
Fiscal Years		Туре			Delivery				Avail	Date
Mine Resistant Ambush Protected Vehicles										
FY07 Category II JERRV- Sole Source	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Nov-06	Feb-07	101	633,000	Yes	N/A	N/A
FY07 Category III Buffalo- Sole Source	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Nov-06	Mar-07	44	699,000	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Feb-07	May-07	65	510,540	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	GDLS	FFP/IDIQ	MCSC, Quantico, VA	Feb-07	Aug-07	10	529,509	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	Oshkosh	FFP/IDIQ	MCSC, Quantico, VA	Feb-07	Jul-07	100	306,199	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	PVI	FFP/IDIQ	MCSC, Quantico, VA	Feb-07	Jun-07	60	624,074	Yes	N/A	N/A
FY07 Category II Vehicles- Competitive	BAE	FFP/IDIQ	MCSC, Quantico, VA	Feb-07	Apr-07	69	629,800	Yes	N/A	N/A
0 ,			, ,	Feb-07	Apr-07 Apr-07				N/A	N/A
FY07 Category II Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA		, ,	60	570,364	Yes		
FY07 Category II Vehicles- Competitive	GDLS	FFP/IDIQ	MCSC, Quantico, VA	Feb-07	Aug-07	10	571,920	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Apr-07	Aug-07	772	444,311	Yes	N/A	N/A
FY07 Category II Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Apr-07	Aug-07	228	530,122	Yes	N/A	N/A
FY07 Category III Buffalo- Sole Source	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	May-07	Feb-08	14	699,000	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	IMG	FFP/IDIQ	MCSC, Quantico, VA	Jun-07	Sep-07	450	548,172	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Jun-07	Jan-08	30	474,598	Yes	N/A	N/A
FY07 Category II Vehicles- Competitive	BAE (Ambulances)	FFP/IDIQ	MCSC, Quantico, VA	Jun-07	Sep-07	5	776,800	Yes	N/A	N/A
FY07 Category II Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Jun-07	Jan-08	14	570,364	Yes	N/A	N/A
FY07 Category I Vehicles- Competitive	Armor Holdings	FFP/IDIQ	MCSC, Quantico, VA	Jul-07	Dec-07	1020	443,000	Yes	N/A	N/A
FY07 Category II Vehicles- Competitive	Armor Holdings	FFP/IDIQ	MCSC, Quantico, VA	Jul-07	Dec-07	10	457,599	Yes	N/A	N/A
FY07 Category II Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Dec-07	Apr-08	17	457,599	Yes	N/A	N/A
FY08 Category I Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Oct-07	Mar-08	480	445,000	Yes	N/A	N/A
FY08 Category II Vehicles- Competitive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Oct-07	Mar-08	81	570,000	Yes	N/A	N/A
FY09 Category I Vehicles - Competetive	Force Protection Inc	FFP/IDIQ	MCSC, Quantico, VA	Jan-09	Jul-09	2	526,692	Yes	N/A	N/A
FY09 M-ATV - Competitive	Oshkosh Truck Corp	FFP/IDIQ	Warren, MI	Jun-09	Jul-09	942	434,445	Yes	N/A	N/A
FY10 M-ATV - Competitive	Oshkosh Truck Corp	FFP/IDIQ	Warren, MI	Nov-09	Jan-10	478	430,408	Yes	N/A	N/A
FTTO M-ATV - Competitive	Oshkosh Huck Corp	FFP/IDIQ	vvarien, ivii	1100-09	Jan-10	4/0	430,406	res	IN/A	IN/P
Remarks:	L		ı	1					<u>I</u>	

Exhibit P-5A, Procurement
BLI No. 652000

Item No. 47 Page 7 of 10

Exhibit P-5A, Procurement
History and Planning

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PHYSICAL SECURITY - Physical security systems are used at base flight lines and Arms, Ammunition and Explosive (AA&E) sites), in expeditionary environments, Other Critical Assets (OCA), Mission Essential Vulnerable Areas, support the Marine Corps Critical Infrastructure Protection (CIP) Program and include capital plant equipment specifically designed for physical security in military construction (MILCON) projects. This budget line provides funding to procure investment items, devices and systems necessary for United States Marine Corps installations and facility infrastructure to comply with Congressional, White House Military Office, Department of Defense, Department of Navy, Marine Corps Physical Security and Antiterrorism Directives pertaining to security equipment and electronic security systems (ESS) as technological solutions to manpower intensive security requirements; and to provide a systematic, uniform capability throughout Marine Corps installations to deter, delay, and defeat espionage, sabotage, damage, theft, and terrorist acts against Marine Corps personnel, resources, installations and facilities. These systems upgrade and replace antiquated systems that are costly to maintain and upgrade security in neglected areas. The Marine Corps Electronic Security System (MCESS) Program provides Intrusion Detection, Access Control to include automated entry control systems, Mass Notification, Closed-Circuit Television (CCTV) and other surveillance equipment support by Visual Assessment Capabilities with digital recording. Mass Notification Systems provide warning capability to personnel in event of emergencies or changes in Force Protection Conditions. These systems increase efficiency/effectiveness of available security manpower and improve safety and security at access points. The systems reduce vulnerabilities and maintain mission readiness and enhance mission capabilities in support of Flight Line Security. Support to the War Fighter with technology and distances) allowing for greater defensive postu

GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM (GBOSS) – This program provides persistent (24/7) tracking of objects of interest through the use of a unique, 360-degree, high resolution, day/night surveillance capability for enhanced target recognition and situational awareness, which enables timely and appropriate response options (direct air attack, indirect fire, and ground patrol/attack). Each system can operate independently and consists of five main components: elevated platform, multi-spectral sensor suite, radar sensor systems suite, as well as a ground control system (GCS) and a remote ground station (RGS). The elevated platform is a 106-foot tower. The optical sensor consists of an Electro-Optic color daytime camera, an Infrared black and white day or night camera, spotter scope, a laser range finder (LRF) and a laser pointer (LP). The radar sensor systems are modular and composed of tailorable sensor groups using multiple ground-sensing technologies (Doppler, thermal, seismic, acoustic, audio) consisting of multimode sensors for detection, location and classification to perform mission tasks such as perimeter defense, surveillance and situational awareness. The Remote Ground Station allows the user to operate from a significant distance away from the system.

FY11 Overseas Contingency Operations Request (OCO): \$5.2M

The OCO funds will procure Joint Expeditionary Forensic Facilities (JEFF) labs. The Marine Corps has had tremendous success with the JEFF labs in Operation Iraqi Freedom (OIF). The capabilities provided by the JEFF labs include ballistic matching of weapons to specific incidents and the capturing of latent prints and DNA from weapons, safe houses, and other sensitive sites or materials. The information received from the JEFFs have lead to the identification and dismantling of terrorist and insurgent cells and IED-networks, the successful prosecution of terrorists and insurgents in the Central Criminal Courts of Iraq (CCCI), the generation and quick turn of actionable intelligence for targeting purposes, and the population of terrorist and insurgent biometrics into biometrically-enabled terrorist watch lists (both National and DoD watch lists). The JEFF labs will be provide Marines in Operation Enduring Freedom (OEF) with the same capabilities that generate actionable intelligence and link individuals and events.

Exhibit P-5 Cost Analysis	Procure	riation/ Budget Ac ement, Marine Co ent / 6438	•				em Nomenc nysical Secu			Weapon S	ystem	Date:	February 20	10
Weapon System		Prior Yrs		FY 09			FY 10			FY 11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
INSTALLATIONS PHYSICAL SECURITY	Α	82500	28268	VAR	VAR	6383	VAR	VAR	5530	VAR	VAR			
COLLATERAL EQUIPMENT PHYSICAL SECURITY	Α	6962	7107	VAR	VAR	6745	VAR	VAR	10889	VAR	VAR			
GROUND BASED OPERATIONAL SURVEILLANCE (G-BOSS)			50854	VAR	VAR	2720	VAR	VAR						
Subtotal Baseline		89462	86229			15848			16419					
FY11 OCO INSTALLATIONS PHYSICAL SECURITY Subtotal FY11 OCO	А								5200 5200		VAR			
TOTAL ACTIVE RESERVE \		89462 89462				15848 15848 0			21619 21619 0					

		Exhibit P-	40, Budget	Item Justific	ation She	et			Date:	Febru	ary 2010	
Appropriation / Budg Procurement, Marine	•		and Other Eq	uipment / 644°	l		P-1 Item Nor		Mobile Engir	neer Equipme	ent (GMEE)	
Program Elements: 0206496M Bas	se Operations, Fo	orces (Marine	Corps)	Code: A		Other Relat	ed Program E	lements:				
	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total
Proc Qty												•
Gross Cost	78.2	9.4	11.8	11.0	0.0	11.0	12.3	12.5	12.8	13.1	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	78.2	9.4	11.8	11.0	0.0	11.0	12.3	12.5	12.8	13.1	Cont	Cont
Initial Spares		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont
Total Proc Cost	78.2	9.4	11.8	11.0	0.0	11.0	12.3	12.5	12.8	13.1	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C					•							
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Command Support Equipment - Funds in this line provide for the procurement/replacement of Class 3 (non-industrial) and Class 4 (industrial) equipment to support the operation and mission of United States Marine Corps ground bases, air stations and districts.

Garrison Mobile Engineer Equipment (GMEE) - Funds in this line provide for the procurement of centrally managed GMEE for United States Marine Corps Bases and Stations. The replacement has been developed on an as-required basis because most commercial engineer construction equipment exceeds life expectancy. The procurement source is Defense Supply Center Philadelphia (DSCP).

Material Handling Equipment (MHE) (Bases and Stations) - Funds in this line provide for the replacement of centrally managed forklifts, warehouse cranes, and platform trucks. The replacement program has been developed on an as-required basis because most commercial Material Handling Equipment exceeds life expectancies developed and promulgated by Department of Defense (DoD) directives.

Warehouse Modernization - Funds in this line provide for more efficient use of limited warehouse space. This program enables procurement of equipment essential to the efficiency and economy of storage/packaging operations, maximizes and improves the utilization of manpower, cubic storage space, and provides timely support for deployment actions.

Exhibit P-40a, Budget Item Justification	on for	Aggre	gated Items			Date:	ebruary 201	0		
Appropriation / Budget Activity/Serial No:				P-1 Item No	menclature:					
Procurement, Marine Corps (1109) / 06 Engineer and Other Equipme	ent / 64	41				rrison Mobile	Engineer E	quipment (GM	1EE)	
Procurement Items	Code	UOM	Prior Years	FY2009	FY2010	Base FY2011	OCO FY2011	Total FY2011		
COMMAND SUPPORT EQUIPMENT	Α	D	3.951	0.718	0.690		0.000	1		
		Q		VAR	VAR	VAR	VAR	VAR		
MATERIAL HANDLING EQUIPMENT (MHE) BASES AND STATIO	Α	D	21.671	2.539	4.047	3.699	0.000	3.699		
		Q		VAR	VAR	VAR	VAR	VAR		
WAREHOUSE MODERNIZATION	Α	D	8.803	1.493	1.562	1.547	0.000	1.547		
		Q		VAR	VAR	VAR	VAR	VAR		
Total			34.425	4.750	6.299	1	0.000	1		
Active Reserve			34.425 0.000	4.750 0.000	6.299 0.000	1	0.000			
Reserve			0.000	0.000	0.000	0.000	0.000	0.000		

Exhibit P-5 Cost Analysis	Procure	oriation/ Budge ement, Marine Co ent / 6441	orps (1109) / 00	6 Engineer a	and Other	P-1 Line Iten Garrison Mobi (GMEE)	ile Engineer E		Weapon S		e:	Date: Fe	bruary 201	0
Weapon System		Prior Yrs		FY2009			FY2010			FY2011				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
GARRISON MOBILE ENGINEERING EQUIPMENT	Α	43814	4679	VAR	VAR	5490	VAR	VAR	5046	VAR	VAR			
Low density procurements of multiple configurations of light, medium and heavy duty Garrison Mobile Engineering Equipment (mowers, ditching machines, sweepers, tractors, bulldozers, cranes, etc) for all USMC Base and Stations.														
TOTAL ACTIVE RESERVE			4679 4679 0			5490 5490 0			5046 5046 0					

	Exhibit P-	40, Budget	Item Justif	fication She	et		Date:		Febru	ary 2010		
Appropriation / Budg Procurement, Marine	•		and Other Ed	quipment / 646	2		P-1 Item Nome		F MATERIAL	. HANDLING	EQUIPMENT	
Program Elements: 0206315M Force S Group		Code: A		Other Relate	d Program El	ements:						
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	176.6	88.8	98.2	24.4	58.3	82.6	21.2	19.9	17.6	18.3	CONT	CONT
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	176.6	88.8	98.2	24.4	58.3	82.6	21.2	19.9	17.6	18.3	CONT	CONT
Initial Spares												
Total Proc Cost	176.6	88.8	98.2	24.4	58.3	82.6	21.2	19.9	17.6	18.3	CONT	CONT
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		6.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	CONT

Tractor Multipurpose (TRAM) Base Appropriation Request:

FAMILY OF MATERIAL HANDLING EQUIPMENT

The Material Handling Equipment (MHE) line is a roll-up line that funds for the replacement and service life extension of Material Handling Equipment which includes forklifts, cranes, and container handlers. The replacement/service life extension program has been developed on an 'as required' basis. History has confirmed that many items of MHE have been maintained beyond the life expectancies developed and promulgated by Department of Defense (DoD) directives. This roll-up line includes funding for the Extended Boom Forklift; Light Rough Terrain Forklift, Tractor, Rubber Tired, Articulated Steering, Multi-Purpose (TRAM) with buckets and fork attachments, Kalmar Rough Terrain Container Handler, All Terrain Crane (MAC-50), and the Light Capability Rough Terrain Crane (7.5 ton).

FY11 Overseas Contingency Operations Request (OCO): \$58.3M

Procures for combat losses and is required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan. The funding will procure the Light Rough Terrain Forklift, Extended Boom Forklift, Rough Terrain Container Handler and Tractor, Rubber Tired, Articulated Steering, Multi-Purpose (TRAM).

Exhibit P-5 Cost Analysis	Procur		get Activity/S ne Corps (11		ngineer an	d Other	FAMILY OF	m Nomencla MATERIAL EQUIPMEN	_	Weapon Sy	stem Type:	Date: Fe	bruary 2010	
Weapon System		Prior Yrs		FY 09			FY 10			FY 11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	Unit Cost \$			
Baseline Family of Material Handling Equipment All Terrain Crane (50 Ton) Engineering Equipment Armoring Extended Boom Forklift Rough Terrain Container Handler (RTCH) Tractor Multipurpose (TRAM) Truck Forklift Light (LRTF) Integrated Logistics Support		73650 18517 75124 9274 1 76565	18124 15981 11398 41360 1949 88813	27 VAR 15 215	671263 VAR 759898 192372	7384 19224 22797 35765 10889 2118 98177	11 142 30 138 94	135382 759898 259168	11643 11815 918 24376		135382 115837			
FY11 OCO Family of Material Handling Equipment Extended Boom Forklift Rough Terrain Container Handler (RTCH) Tractor Multipurpose (TRAM) Truck Forklift Light (LRTF) Subtotal FY11 OCO TOTAL ACTIVE		176565 176565	88813 82662 6151			98177 90894 7283			10966 9886 26176 11236 58264 82640	13 101 97	135382 760436 259168 115837			
Reserves Family of Material Handling Equipment Tractor Multipurpose (TRAM) Subtotal Reserves			6151 6151	32	192372	7283 7283	28	259168						

	Exhibit P-5a, Budget Procur	ement Hist	ory and Planning					Date: Fe	bruary 2	010
Appropriation / Budget Activity/Serial N Procurement, Marine Corps (1109) /	No: 06 Engineer and Other Equipment / 6462	Weapon	System Type:		_		nenclature: MATERIAL HAN	NDLING E	QUIPME	NT
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years		Туре		Date	Delivery	Lacii		Avaii:	Avail	Date
All Terrain Crane										
FY09	Terex, Westport, CT	FFP	MCSC Quantico, VA	Apr-09	Apr-10	27	671263	Yes	No	N/A
FY10	Terex, Westport, CT	FFP	MCSC Quantico, VA	Apr-10	Nov-10	11	671263	Yes	No	N/A
Extended Boom Forklift										
FY10	TBD	TBD	TBD	TBD	TBD	142	135382	Yes	No	N/A
FY11	TBD	TBD	TBD	TBD	TBD	86	135382	Yes	No	N/A
FY11 OCO	TBD	TBD	TBD	TBD	TBD	81	135382	Yes	No	N/A
Rough Terrain Cont Handler										
FY09	Kalmar, Cibolo, TX	MIPR	TACOM, Warren, MI	Aug-09	Jun-10	15	759898	Yes	No	N/A
FY10	Kalmar, Cibolo, TX	MIPR	TACOM, Warren, MI	Jan-10	Nov-10	30	759898	Yes	No	N/A
FY11 OCO	Kalmar, Cibolo, TX	MIPR	TACOM, Warren, MI	Jan-11	Nov-11	13	760436	Yes	No	N/A
Tractor Multi-Purpose (TRAM)										
FY09 - Active	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Oct-09	Sep-10	215	192372	Yes	No	N/A
FY09 - Reserve	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Oct-09	Sep-10	32	192372	Yes	No	N/A
FY10 - Active	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Jan-10	Dec-10	138	259168	Yes	No	N/A
FY10 - Reserve	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Jan-10	Dec-10	28	259168	Yes	No	N/A
FY11 OCO	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Jan-11	Dec-11	101	259158	Yes	No	N/A
Truck Forklift Light (LRTF)										
FY10	TBD	TBD	TBD	TBD	TBD	94	115837	Yes	No	N/A
FY11	TBD	TBD	TBD	TBD	TBD	102	115837	Yes	No	N/A
FY11 OCO	TBD	TBD	TBD	TBD	TBD	97	115837	Yes	No	N/A

	EXHIBIT P-2 1	I, PRO	DUC	OIT	N SC	HE	DUL	LE												Date				F	ebru	ıarv	201	10			
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Procurement, Marine Corps (1109) / 06 Engir	neer and Other Ed	Juipmer	nt / 64	162						-							FAI	MILY	OF	MA	ΓER	IAL	HAN	I DL	ING	EC	UIF	PMEI	NT		
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All Terrain Crane (50 Ton)	Terex, Westpo						_	17	_	4		12					6			12			7				8		느		
Rough Terrain Container Handler (RTCH)	Kalmar, Cibolo						_	1		3		6					11			10			10				21		E		
Tractor Multi-Purpose (TRAM)	John Deere, M	oline, IL					_	68	_	25		40					12			11	_		11			2	23		Е		
Extended Boom Forklift	TBD						_	BD		ΓBD		ΓBD																	ㅗ		
Truck Forklift Light (LRTF)	TBD							41	Т	ΓBD	1	ΓBD																	ㄴ		
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All Terrain Crane (50 Ton)		FY09		27	0	27																			Α			<u> </u>	—	<u> </u>	2
Rough Terrain Container Handler (RTCH)		FY09		15	0	15				.																		ــــ	Α	<u> </u>	1
Tractor Multi-Purpose (TRAM) - Active		FY09		215		215				1																		ـــــ	₩	<u> </u>	2
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All Terrain Crane (50 Ton)		FY09		27	_	27		+		-		-	4	4	4	4	4	4	3	4	_	3		_				┢	₩	├ ─'	0
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Rough Terrain Container Handler (RTCH)		FY109		30	0			+		Α		-			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	┢	(
Rough Terrain Container Handler (RTCH) FY	′11 OCO	FY11		13	0	13	-	+		-	-	+		1						3	J	A	3	3	3	3	<u>ა</u>	3	13		1
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Tractor Multi-Purpose (TRAM) - Reserve		FY09		32	3	32	A			+	1	+		1				8	8	8	8	20	20	20	20		H	H	+	╁	1
Tractor Multi-Purpose (TRAM) - Active		FY10		138	0	138	H	+		Α	\vdash	+		\vdash				H	0	U	2	5	5	5	10	37	37	37	+	一	+
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Tractor Multi-Purpose (TRAM) - FY11 OCO		FY11		101	0	101				+^	t	1				1					Ť	A		Ť				一	\vdash	\vdash	10
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	EXHIBIT P-21	, PRO	DUC	CTIO	N SC	HEI	DUI	LE												Date): -				Feb	ruar	y 20	10			
Appropriation Code/CC/BA/BSA/Item Control Procurement, Marine Corps (1109) / Engine		ent (6)					Wea	apon	n Sys	stem	1			P-1 l	tem					MA	ATE	RIA	L H.				,		/ENT	-	
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ITEM	Manufacturer's NA	ME / LC	CATI	ON			M	SR	EC	ON	M	ĄΧ		Γ Prid	or	ALT	Afte			itial		Re	eord ig Pl			TC	TAL		Unit Mea	of asure	
All Terrain Crane (50 Ton)	Terex, Westport, C	Т					1	7	_	4	1	2			\dashv		6	+		12			7			_	18		E		
Rough Terrain Container Handler (RTCH)	Kalmar, Cibolo, TX						_	1		3		6			\dashv		11	+		10			10				21		E		
Tractor Multi-Purpose (TRAM)	John Deere, Moline	e. IL					_	88		25		0			\dashv		12	+		11	-		11				23		E		
Extended Boom Forklift	TBD	,					TE			BD		3D			\dashv		_	+			-								冖		
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Tractor Multi-Purpose (TRAM) - FY11 C	CO	FY11	MC	101	0	101			40	40	21				T			T													0
Rough Terrain Container Handler (RTC	H) FY11 OCO	FY11	MC	13	0	13		13										ı													0
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	Exh	ibit P-40, Bu	udget Item	Justification	n Sheet			Date:	1	February 201	0	
Appropriation / Budget Procurement, Marine C			and Other Eq	uipment / 646		P-1 Item Nom	nenclature:	First Des	stination Trans			
Program Elements: 0206315M Force	Service Suppo	ort Group		Code:	Other Relate	d Program Ele	ments:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY2012	FY2013	FY2014	FY2015	To Complete	Total
Proc Qty				<u> </u>	Γ	<u> </u>		\Box		<u> </u>		
Gross Cost	67.8	5.8	5.3	2.7	0.0	2.7	2.8	2.8	2.9	3.0	Cont	Cont
Less PY Adv Proc	 		 	<u> </u>	 			 	 		 	
Plus CY Adv Proc	<u> </u>	 		<u> </u>	<u> </u>	 		<u> </u>	<u> </u>		<u> </u>	<u> </u>
Net Proc (P-1)	67.8	5.8	5.3	2.7	0.0	2.7	2.8	2.8	2.9	3.0	Cont	Cont
Initial Spares				<u> </u>	ļ					ļ		
Total Proc Cost	67.8	5.8	5.3	2.7	0.0	2.7	2.8	2.8	2.9	3.0	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
							 I					
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
and/or suppliers to transportation serv		Topa doore .	JI Idominoc.	All transport	CHOTTHORAS	34 III 4115 p. 6;	gram is pre	vided by co		Tudentary is	IIIGG DOD	

		priation/ Budg				P-1 Line	Item Nomen	clature:				Date:		
Exhibit P-5 Cost Analysis	Procus Other	rement, Marine Equipment / 6	e Corps (110 468	9) / 06 Eng	ineer and		Fir	st Destination	on Transpor	tation			February 2	2010
Weapon System		Prior Yrs		FY09			FY10			FY11				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
<u>Baseline</u>														
First Destination Transportation		67836	5789	VAR	VAR	5285	VAR	VAR	2748	VAR	VAR			
TOTAL		67836				5285			2748					
ACTIVE RESERVE		67836	5789 0			5285 0			2748 0					

	Ex	chibit P-40,	Budget Iter	m Justificati	on Sheet			Date:		February 2010)	
Appropriation / Budget Procureme	Activity/Serial No: nt, Marine Corps (1109) / 06 Engi	neer and Othe	r Equipment / 65		P-1 Item Nomeno	lature:	Field M	ledical Equipm	ent		
Program Elements: 0206315M Ford	ce Service Support	Group		Code: A	Other Related	Program Elements	S:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	133.7	31.1	6.8	6.7	0.0	6.7	8.0	5.9	6.0	6.2	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	133.7	31.1	6.8	6.7	0.0	6.7	8.0	5.9	6.0	6.2	Cont	Cont
Initial Spares	1.1	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.6	0.6	Cont	Cont
Total Proc Cost	134.7	31.6	7.3	7.2	0.0	7.2	8.5	6.4	6.6	6.7	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Family of Field Medical Equipment (FFME) is comprised of:

Enroute Care System (ERCS) provides equipment and supplies for the care of two critically injured/ill, but stabilized, casualties in theater operations for up to a two hour medical evacuation (MEDEVAC) flight. The ERCS is a modular system that includes medical equipment, medical treatment protocols, and consumable supplies.

Medical X-Ray Equipment program provides radiological capability to surgical trauma platoons to diagnose injuries and medical abnormalities. AMAL-627 contains equipment and consumables to support one x-ray machine and develop x-rays. The x-ray unit is a compact, mobile and lightweight system that enables all imaging functions to be performed at the point of patient care. The unit is comprised of a low capacity x-ray unit and a digital computed radiographic (CR) reader, which scans the x-ray plates and displays the images on a laptop computer. The unit can be broken down into components for transportation and storage. It is operable and maintainable under all conditions of altitude, climate, and terrain.

Field Dental System provides dental services to the Marine Expeditionary Force (MEF). In an operational environment, the Dental Battalion's primary mission is to provide dental health maintenance with a focus on emergency care. 662 ADALs contain the equipment and supplies required by dentists and their technicians to perform dental procedures on Marines in an expeditionary environment. It can be broken down into component sets or scaled down to fit the size and mission of the deploying unit. Primarily designed for stand alone dental treatment, but it can be used in conjunction with other AMALs.

Mobile Oxygen Ventilation and External Suction Device (MOVES) is a significant upgrade to the ERCS. It effectively eliminates oxygen bottles from the battlefield and improves pre-hospital life support throughout the entire patient stabilization and transportation process. This single, integrated device will effectively replace the existing ventilator with monitor, suction device, oxygen bottles, and the cumbersome Special Medical Emergency Evacuation Device (SMEED) bracket, which will significantly reduce cost, cube, and weight, while enhancing the quality of care and improving survivability for trauma patients.

Forward Resuscitative Surgery System (FRSS) provides Level I and II Health Service Support (HSS). The FRSS is a highly mobile, rapidly deployable, trauma surgical unit that provides emergency surgical interventions to stabilize casualties that might otherwise die or lose limbs before reaching treatment. The FRSS is the lightest and most mobile of the Marine Corps HSS elements capable of providing trauma surgical care. The FRSS is modular, rapidly transportable and deployable by air or surface means. Included in the FRSS are medical materials, a shelter, ancillary equipment, and mobile electric power.

Vaccine and Reagent Refrigeration System (VARRS) is designed to provide an effective means of storing vaccines and laboratory reagents blood which will be used to save lives of its warfighters in extreme weather environments such as the summer desert in the Middle East, or jungle environments in South East Asia. The current refrigeration system is inadequate and can not withstand these austere environments. VARRS will have increased operating and storage capabilities to meet the medical refrigeration requirements.

Exhibit P-40, Budget Item Justification Sheet		Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	Field Medical Equipment
Procurement, Marine Corps (1109) / 06 Engineer and Other Equipment / 6522		Field Medical Equipment
Family of Incident Response System (FIRS) is comprised of: a. FIRS is a roll up program consisting of over 70 Commercial Off-The-Shelf (COTS) technologi Marine Air-Ground Task Forces (MAGTF). b. CBIRF is a task organized unit that, when directed, will forward-deploy and/or respond to a cr local, state, or federal agencies and designated Combatant Commanders in the conduct of consequing search, rescue, and personnel decontamination; and emergency medical care and stabilization of content of the conduct of the Marine Air-Ground Task Force (MAGTF) Consequence Management (CM) Force Protect that provide the MAGTF Commanders with an enhanced capability of force protection above that av	redible threat of a chemical, biologic lence management operations by pr ontaminated personnel. tion Sets are tailored sets of COTS of	cal, radiological, nuclear, or high yield explosive (CBRNE) incident to assist roviding capabilities for agent detection and identification, casualty consequence management equipment, modeled on CBIRF capabilities,
Mobile Trauma Center: The Mobile Trauma Center provides mobile resuscitative care in an armored trauma bay for multiple will transport the needed equipment and medical personnel needed to perform patience care in forw	·	ons. The Center is fully equipped with required medical equipment and
Marine Corps Expeditionary Shelter System: EMI Maintenance Shelter is a part of the Marine Corps Field Logistics System (MCFLS). This system compatible with current Marine Corps transportation modes, require minimum maintenance, and will presents the unique variation of one 20-foot EMI/EMC shelter and three 10-foot Rigid/EMC shelters communication systems being fielded today require a climate controlled environment in order to perf support current and future inventory of Electronic Communication Systems.	I protect equipment and functions ne being used for special purposes. Ea	eeded to support Fleet Marine Force (FMF) operations. This shelter ach shelter is configured to support its mission. Many of the current

P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-clature: P-1 from Normo-c	Exhibit P-40	a, Bu	ıdget l	tem Just	ification for	Aggregated	d Items			Date:		February 2010	
Procurement Items		r Equip	ment / 6	522			P-1 Item Nomen	clature:		Field Medica	I Equipment		
- Frevous Care System (ERCS) A D 14,596 4717 2.751 0.000 0.000 0.000 0.000	Procurement Items	Code	UOM		FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011				
- Medical X-Ray Equipment	Family of Field Medical Equipment												
- Field Dental System	- 'Enroute Care System (ERCS)	Α	_			2.781	0.000	0.000	0.000				
- Field Dental System													
O Var Var Var Var Var Var Var Var	- 'Medical X-Ray Equipment	A	_			0.000	0.000	0.000	0.000				
- 'Mobile Oxygen Ventilation External Suction (MOVES) A D 1.000 4.830 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	- 'Field Dental System	Α						0.000					
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Exhibit P-5 Cost Analysis	Pr	opropriation/ Bu ocurement, Ma 22	idget Activity irine Corps (/Serial N 1109) / 0	o: 6 Engineer a	nd Other Equ	ipment /	P-1 Line Ito Field	em Nomencla Medical Equip		Weapon	System Type:	Date: Februar	ry 2010
Weapon System	IC	Prior Yrs TotalCost	TotalCost	FY 09 Qty	UnitCost \$	TotalCost	FY 10 Qty	UnitCost \$	TotalCost	FY11 Qty Each	UnitCost	TotalCost	FY11 OCO Qty Each	Unit Cost \$
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	Exhibit P-5a, Budget Procurement History an	d Planning						Date:	February 201	0
Appropriation / Budget Activity/Serial No:	54, _4495554.5611 (110.51) 411	Weapon System	Туре:		P-1 Line Item Nor	menclature:			. obludiy 201	<u> </u>
Procurement, Marine Corps (1109) / 06 Engineer and Ot	her Equipment / 6522		··				Field Medica	al Equipment		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail?	Date Revsn	RFP Issue I
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Appropriation / Budg						P-1 Item Nor	nenclature:					
Procurement, Marine	e Corps (1109) / (06 Engineer a	and Other Eq					T	raining Devices			
Program Elements: 0206211N	/ Divisions (Marir	ne)		Code: A	Other Relate	d Program Ele	ements:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	584.6	113.6	141.7	5.7	55.9	61.5	10.6	40.4	39.2	29.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	584.6	113.6	141.7	5.7	55.9	61.5	10.6	40.4	39.2	29.8	Cont	Cont
Initial Spares												
Total Proc Cost	584.6	113.6	141.7	5.7	55.9	61.5	10.6	40.4	39.2	29.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

CENTER FOR ADVANCED OPERATIONAL CULTURE LEARNING (CAOCL) provides a turnkey solution to support the growing demand for technologically enhanced foreign language training. This solution should be in the form of self-sustaining Language Learning Resource Centers (LLRCs) as training units. The USMC requires up to 30 LLRC units deployed to multiple CONUS and OCONUS locations. The USMC LLRCs will comprise the following basic requirements: be mobile with support for 16 students in a variety of ways, contain high speed unrestricted internet access, satellite radio and television capability, web based with a web server, contain a database server and 16 complete workstations, contain integrated Heating/Ventilation Air Conditioning and Back-up Power generator. The USMC requirement is to implement a LLRC solution that has the ability to operate with minimum impact on resources from the hosting military installation.

COMBAT VEHICLE TRAINING SYSTEM (CVTS). The CVTS consists of the Advanced Gunnery Training System (AGTS)- M1A1, AGTS-Light Armored Vehicle (LAV) and the Amphibious Assault Vehicle (AAV) Turret Trainer (TT). The AGTS provides the ability to train M1A1and LAV-25 crew members in combat skills and readiness. The AAV -TT is a stand-alone trainer using the surplus AAV turret and modified ISMT weapons to provide individual, crew and section gunnery training. The Operational Requirements Document (ORD) dated 22 January 02 established the requirement for an institutional and Deployable AGTS (DAGTS) system for the M1A1, LAV and AAV communities, requiring crew gunnery training to encompass the driver. This effort procures DAGTS for the AAV community and enhanced driver capability for LAV and AAV training units. This funding will also procure 3 additional follow on M1A1/LAV-25 trainers for the new units.

COMBINED ARMS COMMAND AND CONTROL TRAINER UPGRADE SYSTEM (CACCTUS) will upgrade the remaining three Combined Arms Staff Trainers (CAST) to provide a more realistic training opportunity for Marine Air Ground Task Force (MAGTF) staff elements in the areas of fire support employment, coordination, and integration. The upgraded system will grow to support Marine Expeditionary Battalion (MEB) level training and to effectively integrate current and emerging Communications Command Control Computers and Intelligence (C4I) systems. Ultimately the upgrade will allow for the development of mission plans, rehearsal of developed plans, tools to support after-action and debrief; distributed training and will be interoperable with operational C4I tactical data systems.

COMMAND AND CONTROL TRAINING AND EDUCATION (C2 TECOE) will support all Command and Control sustainment training with training sites at each Marine Expeditionary Force (MEF), 29 Palms, and Headquarters at Quantico. As the sole organization for incidental user sustainment training, the yearly funding is for equipment refresh and procurement of new training systems. A portion of the C2 computer systems are replaced each year to provide current systems for relevant training to the Marines

DISTANCE LEARNING delivers effective training by using modern instructional technologies (interactive software/courseware). The DL Program provides access to Marines to training and education products to increase operational readiness levels. The DL Program delivers courseware for both garrison and deployed Marines. In garrison Marines use Learning Resource Centers (LRCs) that are NMCI seats, Deployed Marines access training through Deployable Learning Resource Centers (DLRCs) which are MCHS hardware. Both garrison and deployed access are supported by MCHS servers that provide student administration and deliver content over local and wide-area networks (LANWAN) to include the MCEN/NMCI. All DL PMC funds are for integration and installation and procurement of the hardware to support the current distance learning infrastructure which has a continuous expanding distance learning user population. Non-NMCI hardwa is refreshed every 5 years. In FY 2009 27 Deployable Learning Resource Center (DLRC) suites will be refreshed.

EXERCISE EQUIPMENT ALLOWANCE POOL meet MAGTFTC's requirement to run effective Mountain Viper/Operation Enduring Freedom (OEF) Pre-Deployment Training Program (PTP). M Equipment Allowance Pool (EAP) and upgraded allowance for a pre-expended bin. Because training units are not fielded with the equipment in Continental United States (CONUS) that will be used in theater (Operation Iraqi Freedom (OIF)/OEF), is imperative that Tactics, Techniques, and Procedures (TTP) familiarization take place with the equipment before units deploy. Additionally, the heavy equipment assets will be utilized by MCMWTC permanent

				Date:
				February 2010
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / 06 Engineer and Other Equ	ipment / 6532			Training Devices
Program Elements:	Code:	Other Relate	d Program Elements:	
0206211M Divisions (Marine)	Α			

personnel to maintain installation requirements and fill gaps where Southwest Regional Fleet Transportation (SWRFT) cannot support.

INFANTRY IMMERSIVE TRAINER (IIT) (I and II MEF Set Re-Design) - Current combat operations in Afghanistan (OEF) in support of the Oversees Contingency Operations (OCO) are being conducted in both urban and rural areas. Training is required to support the complexities of command and control, live-fire coordination in support of maneuver, and logistics operations in support of units at and above company level. Deploying Operational Units need access to an adaptive, interactive, full immersive trainer focused on the infantryman and those who require honed rifleman skills. The desired end state of the immersive trainer is to provide warriors that are better trained to make moral, ethical, and legal decisions on the battlefield. The home station that will benefit from this project is Camp Pendleton, CA. These capabilities give deploying units the opportunity to better meet training requirements before exercising as a MAGTF at Mojave Viper and deploying to the combat theaters. Additionally lessons learned from OIF and OEF are driving the need for new training systems supporting a seamless training environment allowing crucial core capabilities to be available for all Marines at all sites at once. The requested funds would enhance and refresh the training capabilities sponsored in the Range Modernization and Transformation (RM/T) program. This program seeks to modernize major USMC base and station live training ranges to provide enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise command and control capabilities. Funding will be used to refit he I MEF immersive trainer from an Iraqi scenario to an Afghan scenario. The Afghan theater set will have a market area, Mosque, multi-story structures for sniper and oversight points, vehicle entry and exit lanes. Funding will be used to establish an immersive trainer for II MEF.

INSTRUCTOR SUPPORT EQUIPMENT FOR MOUNTAIN WARRIOR supports the training unit's day and night training at Marine Corps Mountain Warfare Training Center (MCMWTC), CA, instructors need to be familiar with and employ the same equipment that the training units deploy with. This includes the latest issue in day optics, night vision equipment, and thermal imaging equipment, which MCMWTC does not have on its Table of Equipment (T/E). This will better allow the instructors to be conversant in the capabilities and limitations of such equipment in the mountainous, cold weather, and high altitude environment. Additionally, it will allow the instructors to be able to see the same things as the unit at night and assess them of their performance accordingly.

MARINE CORPS UNDERWATER EGRESS TRAINING/AMPHIBIOUS EGRESS TRAINER (MAET) is an underwater escape trainer with a generic fuselage section with modules and exits reprinting specific aircraft, cockpit and cabins for select amphibious vehicle platforms. The Submerged Vehicle Egress Trainer (SVET), which was defined by a Statement of Need (SON) submitted by TECOM, is used to train egress from rollover/submerged ground vehicles, replicating the HMMWV, and other ground platforms. These training devices support the Underwater Egress Training Program conducted at Camp Hansen, Okinawa, Japan, MCB Kaneohe Bay, Hawaii, Camp Pendleton, CA and Camp Lejeune, NC. Procurement funding is required to acquire four (4) SVET (High Mobility Multipurpose Wheeled Vehicle (HMMWV)/Mine Resistant Ambush Protected (MRAP) modules at four training sites, Pendleton, LeJeune, Okinawa and Hawaii.

MINOR TRAINING DEVICES/SIMULATORS (MTD) program encompasses the procurement of low density, minor (low cost) MAGTF ground training equipment, simulators and simulations. These devices such as Training-Improvised Explosive Devices (IEDs), Recognition of Combat Vehicles (ROC-V), climbing walls, PITS, weapons models and mockups, enhance basic occupational and combat skills across the wide spectrum of tactics, techniques, procedures and firearms and weapon proficiency. MTDs are for the most part commercial/service non-developmental training devices, used by Marine Corps Schools of Infantry, Marine Corps Martial Arts Program, Recruit Depots, operating forces, bases, stations and support combat readiness. Funding provides capability for the USMC to conduct critical OCO/OIF/EF training and participate as a full-fledged member of several Joint programs.

MOBILIE OPERATION IN URBAN TERRAIN (MOUT) Facilities - These funds will support the procurement of ISO containers to support MAGTFTC, Twentynine Palms, CA. The Containers will be used to construct a second MOUT facility to support Forward Air Controller Training and other ACE training during Mojave Viper exercises. This MOUT facility is required to support the second Bn that will be part of the expanded "Duel Mojave Viper" Training Program. The current range is not adequate to support al training requirements. The ISO buildings are as follows: (6) 3 story buildings at 190K, (24) 2 story buildings at 125K, (29) single story at 16K, (1) Mosque at 225K, (2) U shaped buildings at 100K, (5) 2 story buildings at 175K, (5) 2 story L shaped buildings at 125K and (3) H shaped buildings at 125K. The ISO Containers would be a one time cost to create this unique training facility.

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES 2000) is a joint interest program between the U.S. Marine Corps and the U.S. Army. It is the Tactical Engagement Simulation System for the Marine Corps and provides a family of low power, eye safe lasers which simulates the direct fire characteristics of infantry small arms, assault, armor, anti-armor mechanized weapons system and provides the gunner with hit or miss determination. MILES 2000 is designed to be used by the MAGTF as a force-on-force engagement simulation training system. MILES 2000 is the major component that the United States Marine Corps is using for the Range Instrumentation System initiative and an integral component of Position Location Instrumentation.

OEF COMMUNICATION EQUIPMENT - Communications equipment will be required to support dispersed operations and a unit/section's capability to operate at Marine Air Ground Task Force Training Command (MAGTFTC), Twentynine Palms, CA, Marine Corps Mountain Warfare Training Center (MCMWTC), CA, and Marine Corps Air Station, Yuma, AZ and its associated training areas in southern California. Equipment will include items such as an AN/MRC-145 (A1957-vehicular-mounted Single Channel Ground and Airborne Radio System{SINCGARS}), AN/PRC-117F Multi-Band Radio (MBR) (A2068), Command Post Of Future (CPOF) software, and other Command and Control (C2) systems. To suppport the communications equipment, a Marine Corps' Support Wide Area Network (SWAN) will be required to provide the warfighters a robust, beyond-line-of-sight communications.

RADIO COUNTER IMPROVISED EXPLOSIVE DEVICE (RCIED) Electronic Warfare provides training devices replicating fielded Counter Radio Electronic Warfare (CREW) systems including the Chameleon, Duke, and Warlock Surrogate Family of Systems. PMC will allow for continued fullfilment of Marine Corps training requirements while refreshing existing Surrogate Systems.

RANGE TRAINING AREA MANAGEMENT (RTAM) funding will modernize major USMC base and station live training ranges by providing enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) facilities, inter-active targetry, battlefield effects simulators, individual and vehicle tracking systems, aviation tracking systems, MILES, simulated munitions, integrated simulation, and range control and exercise control information processing and situational awareness displays.

Exhibit P-40, Budget Item Justification Sheet	Date: February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:
Procurement, Marine Corps (1109) / 06 Engineer and Other Equipment / 6532	Training Devices

RANGE MODERNIZATION/TRANSFORMATION (RM/T) - PRAETORIAN (VIDEO FLASHLIGHT) is Congressional funding to continue the Range Modernization and Transformation (RM/T) program which implements OSD directed Training Transformation (T2) including Joint National Training Capability (JNTC) and Distributed Operations. These PRAETORIAN capabilities at MCAGCC (Marine Corps Air Ground Combat Center), Twenty-nine Palms, CA provides Real-Time Visualization, Situation Awareness (SA), and AAR capabilities and will be deployed to support Military Operations in Urban Terrain (MOUT) training. The TVCS will support these capabilities by using a video process which combines raw/captured video from multiple cameras into a single wide-panoramic view. The panoramic view is used in real-time to observe Marine's Urban Warfare tactics and for later use during group and individual AAR evaluation sessions.

RANGE MODERNIZATION/TRANSFORMATION (RM/T) program modernizes major USMC base and station live training ranges to provide enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise command and control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) facilities, inter-active targetry, battlefield effects simulators, individual and vehicle tracking systems, aviation tracking systems, Tactical Engagement Simulation Systems, simulated munitions, integrated simulation, and range control and exercise control information processing and situational awareness displays. Current combat Operations in Iraq (OIF) and Afghanistan (OEF) in support of OCO are being conducted in largely urban areas. Training is required to support the complexities of command and control, live-fire coordination in support of maneuver, and logistics operations in support of units at and above company level. Deploying Operational Units need access to instrumented, non live fire and live-fire capable MOUT training facilities, urban sniper training capabilities, convoy operation/reaction course capability, Urban Close Air Support (CAS) ranges, and IED/EOD training capability in order to accomplish this training and bring the Marine Corps into the 21st century, to include a fully immersive infantry trainer (IIT). These capabilities give deploying units the opportunity to better meet training requirements before exercising as a MAGTF at Mojave Viper and deploying to the combat theaters. Additionally lessons learned from OIF are driving the need for new training systems supporting a seamless training environment allowing crucial core capabilities to be available for all Marines at all sites at once. The requested funds would enhance the training capabilities sponsored in the

SNIPER TRAINING SYSTEM (STS) is a Congressional add that supports annual marksmanship qualification and sustainment training. USMC Snipers must maintain a constant state of proficiency and readiness at the highest level whether shore-based or afloat. STS combines visible spectrum pulsed laser light with laser-sensitive targets to form an array of training system options for unique marksmanship training demands.

SPECIAL EFFECT SMALL ARMS MARKING SYSTEM (SESAMS) is a user-installed weapons modification kit that allows the individual Marine to fire, at short range, a low velocity marking ammunition (paint ball) while precluding the weapon from firing live ammunition. SESAMS provides instantaneous feedback during force-on-force close quarter battle scenarios and MOUT exercises. This immediate visual and sensory feedback to the shooter and target withou firing live ball ammunition reduces risk to participants and significantly reduces the maintenance costs to shooting houses. SESAMS has been integrated with MILES 2000 for electronic After Action Review (AAR) Enhancement.

TACTICAL VIDEO CAPTURE SYSTEM (TVCS) is a Congressional add to continue the Range Modernization and Transformation (RMT) program which implements OSD directed Training Transformation (T2) including Joint National Training Capability (JNTC) and Distributed Operations. These TVCS capabilities at MCAGCC, Twenty-nine Palms, CA provides Real-Time Visualization, Situation Awareness (SA), and AAR capabilities and will be deployed to support Military Operations in Urban Terrain (MOUT) training. The TVCS will support these capabilities by using a video process which combines raw/captured video from multiple cameras into a single wide-panoramic view. The panoramic vie is used in real-time to observe Marine's Urban Warfare tactics and for later use during group and individual AAR evaluation sessions.

TRAINING COMMAND (TCOM) MARINE CORPS COMBAT SERVICE SUPPORT SCHOOL (MCCSSS) LOGISTICS SUPPORT WIDE AREA NETWORK (LSWAN) SYSTEM. The Tactical Decision Center (TDC) will support the Predeployment Training Program (PTP) for all Logistics Command Elements (LCEs) deploying to Afghanistan (OEF). This will require a more robust organic C2 system than MCCSSS currently possesses. The Logistics Support Wide Are Network (LSWAN) enables the TDC to communicate using several methods or systems. For example: the LSWAN is frequently used to transmit a Battle Command Sustainment Support System (BCS3) Common Operating Picture (COP), audio, video, and e- mail, etc. to the MCCSSS Unit Operations Center (UOC) Operations Center (UOC) Operations Center (UOC) Operations Center (UOC) Operations System will be used to augment the two current MCCSSS systems. Current operations tend to leave one system constantly in a state of repair making it difficult to train forward/rear command post operations together, as has been experienced lately with the Logistics Operations School's (LOS), Logistics Officer Course Field Exercise (LOCFEX). A third system will enable MCCSSS to always have a back-up system on hand, thus ensuring training is uninterrupted. Additionally, training requirements with the operating forces in the future will likely require the TDC to communicate with students undergoing training during the LOCFEX, while simultaneously supporting a separate training event with the operating forces which would require another LSWAN due to scenario specific requirements.

Exhibit P-40, Budget Item Justification Sheet		Date:	February 2010
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:		
Procurement, Marine Corps (1109) / 06 Engineer and Other Equipment / 6532		Training Devic	ees

TRAINING DEV FIR AND MANEUVER INTEGRATION AND DIVISION (FMID)/FOREIGN WEAPONS TRAINING KITS will support the addition of eight (8) kits and eight (8) armory containers with specified rack system to support the increased requirement for those that will complete the Train the Trainer to actually train their deploying units with. This is based on the CDIB directed and Marine Corps Requirements Oversight Council (MROC) approved Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) assessment. This funding will allow the completion of the Approved Acquisition Objective (AAO) of foreign weapons needed to allow hands-on, detailed, and realistic training to all Marines. Each kit contains eleven (11) variations of weapons and three (3) variations of ammunition.

TRAINING SYSTEM AND TAILS - provides funding for training devices upgrades and refresh. FY12 for SAVT equipment refresh and High Mobility Multi-Purpose Wheeled Vehicle Egress Assistance Trainer (HEAT) equipment refresh. FY13/14 for SAVT equipment refresh. SAVT provides training to the Joint Terminal Attack Controllers (JTAC) and the Forward Observers (FOs) in tactical proficiency and operational readiness in a high fidelity dome environment. HEAT provides the training opportunity to experience vehicle roll-over conditions as well as rehearse and physically execute the steps necessary to survive a vehicle roll-over.

UNITED STATES MARINE CORPS -OPERATOR DRIVING SIMULATOR (USMC-ODS) provides sustainment and refresher training to vehicle operators at Active and Reserve locations for the Medium Tactical Vehicle Replacement (MTVR), MTVR-Marine Armor System (MAS), High Mobility Multipurpose Wheeled Vehicle (HMMWV), Cougar and Buffalo vehicles. The trainer utilizes an interchangeable dash set, three degrees of freedom seat motion for the driver, and 180 degrees visual display. There are two types of configurations, fixed and mobile. The fixed configuration is located in an existing air conditioned facility and the mobile configuration is housed within a trailer that is fully self contained. The current graphics and textures of the existing USMC-ODS databases are beginning to look subpar as compared to current industry standards expanding, which are expanding rapidly. The Visual Database upgrade will help bring the graphics of the USMC-ODS up to industry standards. This is in answer to recent feedback received from Marines that say the ODS looks "cartoonish" and makes them motion sick. Also, the current driving scenarios are tailored to assist in the Incidental Tactical Vehicle Operators Licensing course. The development of the new roll-over prevention scenarios will better prepare our Marine to drive the Mine Resistant Ambush Protected (MRAP) vehicles in tactical situations, including crowded urban areas and debris-cluttered streets. Marine Corps Communication-Electronics School (MCCES) currently has a single ODS system. They need another ODS to reduce the bottleneck of their Incidental Motor vehicle operator licensing program.

FY 10 ISR Task Force: \$4.627M

Modular Amphibious Egress Trainer (MAET)

FY11 Overseas Contingency Operations Request (OCO): \$55.864M

COMBINED ARMS COMMAND AND CONTROL TRAINER UPGRADE SYSTEM (CACCTUS) vision is to provide a state-of-the-art target information and networking system to allow Marine Air Ground Task Force (MAGTF) units to receive realistic Combined Arms Fire Support pre-deployment training. When fully operational CACCTUS will serve two functions; improve a unit's ability to conduct training in combined arms employment, coordination, and integration and enable comprehensive training across the Live Virtual, Constructive Integration training realm through the incorporation of all appropriate Command and Control equipment. The system will provide for multi-echelon training up to a Marine Expeditionary Bridge (MEB) in a distributed fashion allowing for the increase of scope of training events. The requested PMC funding will be utilized the execute the ability to conduct distributed training capabilities. The funding will allow for the procurement of the necessary networking and integration hardware required to support distributed training. We will also upgrade hardware for Tactical Parameter Control Group (TTECG) at Twentynine Palms consistent with our four year system upgrade plan and will limit the systems ability to process emergent operational/training capabilities. In addition, we plan on expanding the Command and Control (C2)/Command, Control, Communications, Computers and Intelligence (C4I) footprint and integration/interoperability capabilities to maintain currency with operational forces' systems. Marines will be able to train like they fight. Finally the funds will allow us the ability to increase our processing capability and our ability to leverage expanded OneSAF V3.0 capabilities and implementation of additional Marine doctrinal behaviors and tactical capabilities.

INFORMATION MANAGEMENT identifies risks and implements corrective actions for various pre-deployment training systems.

RANGE MODERNIZATION/TRANSFORMATION (RM/T) program modernizes major USMC base and station live pre-deployment training ranges to provide enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise command and control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) facilities, inter-active targetry, battlefield effects simulators, individual and vehicle tracking systems, aviation tracking systems, Tactical Engagement Simulation Systems, simulated munitions, integrated simulation, and range control and exercise control information processing and situational awareness displays. Current combat Operations in Iraq (OIF) and Afghanistan (OEF) in support of OCO are being conducted in largely urban areas. Training is required to support the complexities of command and control, live-fire coordination in support of units at and above company level. Deploying Operational Units need access to instrumented, non live fire and live-fire capable MOUT training facilities, urban sniper training capabilities, convoy operation/reaction course capability, Urban Close Air Support (CAS) ranges, and IED/EOD training capability in order to accomplish this training and bring the Marine Corps into the 21st century, to include a fully immersive infantry trainer (IIT). These capabilities give deploying units the opportunity to better meet training requirements before exercising as a MAGTF at Mojave Viper and deploying to the combat theaters. Additionally lessons learned from OIF are driving the need for new training systems supporting a seamless training environment allowing crucial core capabilities to be available for all Marines at all sites at once. I MEF – MCB Camp Pendleton, CA; MCAS Yuma, AZ; II MEF – MCB Camp Lejuene, NC; III MEF – Kaneohe Bay, HI; Okinaw

SUPPORTING ARMS VIRTUAL TRAINER (SAVT) will advance the training capability, operational readiness, and tactical proficiency of Joint Terminal Attack Controllers (JTACs), Joint Forward Observers (JFOs), Forward Observers (FOs) and Forward Air Controllers (FACs) for pre-deployment training. The personnel shall use training scenarios that require the placement of tactical ordnance on selected targets using Joint Close Air Support (JCAS)

Exhibit P-40a, Budget Item Justification	n for	Aggre	gated Items				Date:		Febru	ary 2010)	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 06 Engineer and Other Equipment / 653	32			P-1 Item N	Nomenclat	ure:	Tra	ining Dev		,		
Procurement Items	Code	UOM	Prior Yrs	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011				
Baseline:												
CENTER FOR ADVANCED OPERATIONAL CULTURE LEARNING (CAOC	A	D	0.210	0.633	0.602	0.645	0.000	0.645				
COMBINED ARMS COMMAND & CONTROL UPGRADE SYS (CACCTUS)	Α	D	22.227	4.801	4.101	0.174	5.960	6.134				
COMMAND AND CONTROL TRNING AND EDUCATION (C2 TECOE)	Α	D	0.000	0.000	0.000	1.364	0.000	1.364				
COUNTER RCIED ELECTRONIC WARFARE	Α	D	0.000	3.000	0.000	0.000	0.000	0.000				
DISTANCE LEARNING	Α	D	24.793	1.751	0.249	0.019	0.000	0.019				
INSTRUCTOR SUPPORT EQUIPMENT FOR MOUNTAIN WARRIOR	Α	D	0.000	0.750	0.000	0.000	0.000	0.000				
MINOR TRAINING DEVICES/SIMULATORS/IEDs	Α	D	6.286	0.969	0.981	1.004	0.000	1.004				
MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES)	Α	D	23.243	0.682	0.012	0.013	0.000	0.013				
OEF MOUT FACILITIES	Α	D	0.000	1.000	0.000	0.000	0.000	0.000				
SNIPER TRAINING SYSTEM (STS) - Congressional	Α	D	0.000	3.600	0.000	0.000	0.000	0.000				
SUPPORTING ARMS VIRTUAL TRAINER (SAVT)	Α	D	25.905	0.000	0.000	0.000	0.000	0.000				
SUPPORTING ARMS VIRTUAL TRAINER (SAVT)	Α	D	0.000	0.000	0.000	0.000	1.078	1.078				
TCOM-MCCSS LOGISTICS SPT WIDE AREA NETWORK (LSWAN) SYS	Α	D	0.000	0.000	0.360	0.000	0.000	0.000				
TACTICAL VIDEO CAPTURE SYSTEM - Congressional	Α	D	0.000	3.200	0.000	0.000	0.000	0.000				
USMC OPERATOR DRIVER SIMULATOR (USMC ODS)	Α	D	6.642	0.000	1.600	2.041	0.000	2.041				
FY 10 ISR Task Force: MODULAR AMPHIBIOUS EGRESS TRAINER (MAET)	Α	D	0.000	0.000	4.627	0.000	0.000	0.000				
MODGEAN ANN THEIGOS EGNESS TRAINEN (MAET)	^	D	0.000	0.000	4.027	0.000	0.000	0.000				
Totals			92.267	20.391	12.532	5.260	7.038	12.298				
Active			92.267 0.000	20.391 0.000	12.532 0.000	5.260 0.000	7.038 0.000	12.298 0.000				
Reserve	1		0.000	0.000	0.000	0.000	0.000	0.000				

Exhibit P-5,	Approp	riation/ Budget Activ	vity/Serial No:				P-1 Line Item	Nomenclatu	re:	Weapon Sys	tem Type:	Date:		
Cost Analysis	Procure	ement, Marine Corp	s (1109) / 06 E	ngineer and C	ther Equipme	nt / 6532	Tra	aining Devices	s				February :	2010
Weapon System Cost	ID	PRIOR YRS		FY 09			FY 10			FY 11				
Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$			
Baseline Range Modernization/Transformation (RM/T) (Multiple Instrumentation, MOUT, Targetry, and Battlefield Effects Simulator training systems and configurations at at major USMC base and station live training ranges, as follows): MCB Camp Pendleton, CA; 'MCAS Yuma, AZ MCB Camp Lejuene, NC; Kaneohe Bay, HI Okinawa, Japan; MCAGCC, 29 Palms, CA Mountain Warfare Training Center (MWTC) – Bridgeport, CA; MCB Quantico, VA	A	63219	47076	VAR	VAR	99637	VAR	VAR	408	VAR	VAR			
RANGE TRAINING AREA MANAGEMENT (RTAM)	Α		18136	VAR	VAR									
OEF COMMUNICATIONS EQUIPMENT	Α		5000	VAR	VAR									
EXERCISE EQUIP ALLOWANCE POOL	Α		8000	VAR	VAR									
TRAINING Dev FMID/FOREIGN WEAPONS TRAINING Weapon/Armory Kits Variation (Each Kit has variations of weapons and variations of ammunition)	Α		5641	VAR	VAR									
OEF INFANTRY IMMERSION TRAINER (IIT) (I & II MEF Set Construction) (Multiple live and virtual training systems configured/integrated into a single Infantry Immersion Trainer)	Α		9400	VAR	VAR									
Combat Vehicle Training Sys (CVTS) CVTS- AAV Driver Enhancements CVTS-LAV Driver Trainer Enhancements CVTS- M1A1/LAV Trainer Procurement CVTS-M1A1 DAGTS	Α					11920 10169 4500 2981	16 20 3 6	508 1500						
<u>FY11 OCO</u> Range Modernization/Transformation (RM//T)	Α								18826	VAR	VAR			
Information Management	Α								30000	VAR	VAR			
TOTAL ACTIVE RESERVE			93253 93253 0			129207 129207 0			49234 49234 0					

	Exhibit P-5a, Budget Procuren	nent History	and Planning					Date: F	ebruary 2	010
ropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 0	Engineer and Other Equipment / 6532	Weapon Sy	ystem Type:		P-1 Line I	tem Nomer	nclature: Training De	_	•	
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?	Date Revsn Avail	RFP Issue Date
0 nbat Vehicle Training Sys (CVTS) AAV	п									
Driver Enhancements	TBD	C/FFP	PM TRASYS ORLANDO, FL	Aug-10	Mar-11	16	745	Υ	N/A	Feb-10
Driver Training	TBD	C/FFP	PM TRASYS ORLANDO, FL	Aug-10	Jul-11	20	508	Y	N/A	Feb-10
ional Trainers TBD		C/FFP	PM TRASYS ORLANDO, FL	Aug-10	Apr-11	3	1500	Υ	N/A	Feb-10
S-M1A1 DAGTS	TBD	C/FFP	PM TRASYS ORLANDO, FL	Jul-10	Oct-10	6	497	Y	N/A	Mar-10

REMARKS: CVTS: Further refinesments of fleet requirements presented a reduction in the AAV DAGTS and increase in M1A1 DAGTS. Additional requirement refinements to Driver Enhancements have pushed original award and deliveries to the right by 7 months.

		FY 07 BUD	GET	EXHI	BIT P-	·21, PF	ODUC	TION	N SC	CHEC	DUL	E									Date	9 :			F	ebru	ary 2	2010)			
Appropriation Code/C0 Procurement, Marine (d Othe	r Equip	oment ((6)		Wea	apon	Syste	em				P-1	ltem	Nor	nenc	latur	re:	-	TRAI	NIN	G DE	EVIC	CES						
		-						PF	ROD	UCTI	ON F	RATE	= [PR	ROC	URE	MEN	IT LE	EAD	TIME	S									
TEM		Manufacture	er's N	AME /	LOCAT	TION		MS	SR	ECC	ON	MAX	Χ		Prio			T Aft Oct 1	-		nitia fg Pl			eord fg PL	-		TO	TAL		Unit Mea	t of asure	e
CVTS-AAV-TT - Drive	r Enhancement	TBD						1	1	3		5			12			10			7			2			1	17		EAC	ЭН	
Driver E	Enhancements	TBD						1	1	2		4			7			10			11			2			2	21		EAC	ЭН	
Addi	tional Trainers	TBD						1	1	1		1			2			10			8			3			1	18		EAC	ЭН	
	M1A1 DAGTS	TBD						1	1	3		3			12			9			3			3			1	12		EAC	ЭН	
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		_									Fise	cal Y	ear	10										Fis	cal	Year	11					
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TEM				С	Υ	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
Combat Vehicle Traini	ng Sys (CVTS)	AAV-TT																														
AAV Driver Enhance	ments		10	MC	16	0	16											Α							5	3			3	3	2	
Driver Enhancements	5		10	MC	20	0	20											Α											4		2	·
Additonal Trainers			10	MC	3	0	3											Α								1		1		1		
M1A1 DAGTS			10	MC	6	0	6										Α			1			2		2		1	oxdot		Ш	\square	
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TEM			F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	Α	Е	M A R	A P R	M A Y	J U N	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	
Combat Vehicle Traini	na Svs (CVTS)	AAV-TT				1	1		\vdash		-	+	+															\vdash	\vdash	Н	\vdash	
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Driver Enhancements	3		10	МС	14	0	14		2		2		2		2		2		2		2											
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	Exh	ibit P-40, B	udget Item .	Justificatio	n Sheet			Date:		February 201	0	
Appropriation / Budge	•					P-1 Item Nor	nenclature:					
Procurement, Marine	Corps (1109) / (06 Engineer a	ind Other Equ	ipment / 6543				COI	NTAINER FAI	ИILY		
Program Elements: 0206315M Force	e Service Suppo	rt Group		Code: A	Other Relate	d Program Ele	ements:					
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	99.6	4.4	3.8	0.9	8.8	9.7	6.3	5.4	5.6	5.7	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	99.6	4.4	3.8	0.9	8.8	9.7	6.3	5.4	5.6	5.7	Cont	Cont
Initial Spares												
Total Proc Cost	99.6	4.4	3.8	0.9	8.8	9.7	6.3	5.4	5.6	5.7	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.6	0.6	0.1	8.8	9.0	0.9	0.8	0.8	0.9		

The Container Family provides the Fleet Marine Force with a fully intermodal transport capability emphasizing dimensional standardization and International Organization for Standardization compatibility. Two types of containers are procured, Pallet and Quadruple. The containers are end items and assets owned by the unit, expeditionary in nature. Components for the containers such as racks, horizontal connectors and inserts are not end items and do not have Acquisition Objectives. Containers will replace locally assembled prefabricated wooden mount out boxes and flat and box pallets. The containers will be used to support storage and movement of organizational property and consumable supplies, provide field, garrison and shipboard warehousing, and facilitate ship-to-shore movement.

FY11 Overseas Contingency Operations Request (OCO): \$8.8M

Procures for Combat losses and is required to address MEB-A Equipment Density List (EDL) shortfalls. The EDL is the list of equipment the MEB requires to accomplish its missions in Afghanistan. Items include pallet containers and quadruple containers.

Exhibit P-40a, Budget Item Justifica	tion fo	r Aggr	egated Items			Date:	ebruary 201	0	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 06 Engineer and Other Equipn	nent / 6	543		P-1 Item No	menclature:		NTAINER F.	AMILY	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	
Pallet Container (PALCONS)	Α	D	27.800	2.394	1.578	0.435	4.413	4.848	
		Q		VAR	VAR	VAR	VAR	VAR	
Quadruple Container (QUADCONS)	Α	D	30.200	1.990	2.180	0.462	4.413	4.875	
		Q		VAR	VAR	VAR	VAR	VAR	
TOTA	L		58.000	4.384	3.758	0.897	8.826	9.723	
ACTIVI	_			3.776	3.195	0.763	0.000	0.763	
RESERVI	E			0.608	0.563	0.134	8.826	8.960	

	Exhibit P-40	, Budget Ite	em Justifica	ation Sheet			Date:		Februa	ry 2010		
Appropriation / Budget Ad	ctivity/Serial No:					P-1 Item Nor	nenclature:					
Procurement, Marine Cor	ps (1109) / 06 Eng	gineer and Ot	her Equipme					Family of	Construction E	Equipment		
Program Elements:				Code:	Other Relate	d Program Ele	ements:					
0206315M Force	Service Support C	Group		Α								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty												
Gross Cost	145.1	162.2	73.4	18.3	0.0	18.3	12.3	12.8	15.5	13.3	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	145.1	162.2	73.4	18.3	0.0	18.3	12.3	12.8	15.5	13.3	Cont	Cont
Initial Spares												
Total Proc Cost	145.1	162.2	73.4	18.3	0.0	18.3	12.3	12.8	15.5	13.3	Cont	Cont
Wpn Sys Proc U/C												
Reserves		4.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont

Baseline Request:

Family of Construction Equipment: The Family of Construction Equipment (FCE) line is a roll-up line that provides for the replacement/service life extension program (SLEP) of all United States Marine Corps construction equipment. This line provides for the funding of the Heavy Scraper, Road Grader, Backhoe Loader (BHL), Dozer D7, Medium Crawler Tractor, (and its associated attachments, winches and rippers), Compressor 260 cubic feet per minute (CFM), Runway Sweeper, Dozer W/angle Blade 1150, Dozer W/Bucket 1155, M9 Ace Combat Excavator, Engineer Equipment Trailer (EET) and Rapid Runway Repair (AKA; Airfield Damage Repair Kit), Dust Abatement System which is comprised of three (3) major components Water Distributor, Hydro-Seeder Trailer Mounted, and Hydro-Seeder Truck Mounted. Marine Corps Tactical Welding Shop (MCTWS), Vibratory Compactor, and the Multi-Terrain Loader with Work Tools and Carrier.

Exhibit P-40a, Budget Item Justification t	or Aggr	egated I	tems		Date:		Feb	ruary 2010)	
Appropriation / Budget Activity			P-1 Item	Nomenclatu	re:					
Procurement, Marine Corps (1109) / 06 Engineer and Other Equip	ment / 6	544			Fa	amily of Co	nstruction E	quipment		
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
Airfield Damage Repair Kit Technology Insertion	Α	D	0	.387						
		Q		VAR						
Backhoe Loader Tool Carrier	Α	D			2.303					
		Q			13					
Compressor with Pneumatic Tools	Α	D	1.748		2.600					
					26.000					
Hydroseeder Trailer and Skid Mounted					2.000					
					50					
Matting					2.084					
					VAR					
Scraper, Tractor Wheeled	Α	D			2.800					
Vehicle Automotive Diagnostic System (VADS)					3.102					
		Q			VAR					
Welding Shop	Α	D	0.855		3.800					
		Q	10		33					
Soil Test Kit	Α	D		1.203						
		Q		VAR						
Ultimate Building Machine					1.500					
					VAR					
TOTAL			2.604	1.590	20.189					
Active				1.590	20.189					
Reserves				0.000	0.000					

Exhibit P-5 Cost Analysis	Procur	oriation/ Budge ement, Marine ment / 6544) / 06 Engine	er and Othe	r	Family of (m Nomenclatu		Weapon Sy	stem Type:	Date:	February 20	10
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost \$000	TotalCost \$000	FY 09 Qty Each	UnitCost \$	TotalCost \$000	FY 10 Qty Each	UnitCost \$	TotalCost \$000	FY 11 Qty Each	UnitCost \$			
Baseline M9 ACE Combat Excavator Marine Corps Modernization Kit (includes System Improvement			72000	VAR	VAR									
Package (SIP) 4 configuration changes to Steel Flanges, Power Pack Removal, Crew Cooling System, One Inch Aluminum Bottom, Steel Apron and Blade, Integrate Vision System, Hydraulic System, Stowage Rack Engineer Equipment Armoring			35638	VAR	VAR									
Engineer Equipment Trailer Laser Leveler Medium Crawler Tractor (MCT)		119294	10241	39	262588	6200 12000	100 96							
Multi Terrain Loader 120M Road Grader Runway Sweepers Scraper		11409 14377	3650 32557 3091	40 117 22	91250 278268 140495	6907 14580 10361	-	107922 324000 575593	18261	32	570656			
Integrated Logistics Support		14377	3397			3199	-	313393	10201	32	370030			
Subtotal Baseline		145080	160574			53247			18261					
TOTAL ACTIVE RESERVE		145080 145080	160574 156167 4407			53247 46229 7018			18261 18261					
<u>Reserves</u>														
Multi Terrain Loader 120M Road Grader Integrated Logistics Support Medium Crawler Tractor (MCT)			1256 3151	14 12	91250 262588	6804 214	21	324000						
Subtotal Reserves		0	4407			7018								

	Exhibit P-5a, Budget Procur	ement His	tory and Planning					Date:	ebruary 2	010
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / 0	: 16 Engineer and Other Equipment / 6544	Weapon	System Type:		P-1 Line I		enclature: of Constructi			010
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFI Issu
Fiscal Years		& Type		Date	Delivery	Each		Avail?	Avail	Date
Engineer Equipment Trailer FY10	TBD		TBD	TBD	TBD	100	62000	Yes	N/A	N/A
Medium Crawler Tractor (MCT) FY09 - Active	John Deere, Moline, IL	FFP	MCSC, Quantico, VA	Apr-09		27	262588	Yes	N/A	N/A
FY09 - Reserve	John Deere, Moline, IL	FFP	MCSC, Quantico, VA	Apr-09	Feb-10	12	262588	Yes	N/A	N/A
Multi Terrain Loader FY09 - Active FY09 - Reserve FY10	Caterpillar, Peoria, IL Caterpillar, Peoria, IL Caterpillar, Peoria, IL	FFP FFP	MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA	Feb-10 Feb-10 Feb-10	May-10	26 14 64	91250	Yes Yes Yes	N/A N/A N/A	N/A N/A N/A
Runway Sweepers FY09*	TBD		TBD	TBD	TBD	22	140495	Yes	N/A	N/A
120 M Road Grader FY09 FY10 - Active FY10 - Reserve	Caterpillar, Peoria, IL Caterpillar, Peoria, IL Caterpillar, Peoria, IL	FFP FFP	TACOM, Warren, MI TACOM, Warren, MI TACOM, Warren, MI	Mar-09 May-10 May-10	Dec-10	117 24 21	324000	Yes Yes Yes	N/A N/A N/A	N/A N/A N/A
Scraper =Y10* =Y11*	TBD TBD	FFP FFP	MCSC, Quantico, VA MCSC, Quantico, VA	TBD TBD	TBD TBD	18 32		Yes Yes	N/A N/A	N/A N/A
Contract not yet awarded.										

E	EXHIBIT	P-21	, PRO	DDU	CTI	ON	sc	HE	DUL	E									Date	e:				Feb	ruar	/ 201	0			
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) / Equipment / 6544			Other			We	eapoi	n Sy	stem	l			P-1	Item	Noi	men	clatu		amil	y of	Con	struc	ction							
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ITEM						М	ISR	EC	ON	MA	٩X		Pri	or to 1		_T A Oct			Initia fg Pl			eord fg Pl			TC	TAL			Uni Meas	
Medium Crawler Tractor (MCT)	John D	Deere,	Molin	e, IL			1	2	25	4	0																		E	
Multi Terrain Loader	Caterp	oillar, I	⊃eoria	, IL			1	3	0	4	0																			
120 M Road Grader	Caterp	oillar, I	Peoria	, IL			1	3	0	4	0																			
Runway Sweepers	TBD					Т	BD	TI	3D	TE	BD.																			
Scraper	TBD					Т	BD	TI	3D	TE	3D																			
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Medium Crawler Tractor Active	FY09		39	0	39																			Α						39
120 M Road Grader	FY09	MC	117	0	117																		Α							
									F	isca	l Ye			nda	r Vo	ar 1	n					Fi			ar 11	Yea	r 11			B A L
ITEM	F Y	S V C	Q T Y	D E L	B A L	O C T		D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A N C E
Medium Crawler Tractor (MCT)	FY09	MC	39	0	39					34	5																			0
120 M Road Grader	FY09	MC	117	0	117	H	\vdash			U-T							39	39	39							\vdash				0
Multi Terrain Loader Active	FY09		26	0	26	Г	t	H		Α			13	13			"		55							f				0
Multi Terrain Loader Reserve	FY09	4	14	0	14					Α			14	Ť																0
Multi Terrain Loader	FY10	_	64	0	64					Α			13	27	24															0
120 M Road Grader Active	FY10	_	45	0	45								Α							15	30									0
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	Exhibit P-	40, Budget	Item Justifi	ication Shee	t		Date:		Februa	ry 2010		
Appropriation / Budg	et Activity/Serial	No:			P-1 Item No	omenclature:						
Procurement Marine 6545	Corps (1109) / (06 Engineer a	and Other Eq	uipment /			Family	of Internally	Transportable	Vehicle		
Program Elements:				Code:	Other Relat	ted Program E	lements:					
0206623M Marine Co Systems	orps Ground Co	mbat/Suppor	ting Arms	А								
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Proc Qty	138	53	40	0	73	73	0	0	0	0	0	Cont
Gross Cost	50.2	21.9	10.3	0.0	28.4	28.4	0.0	0.0	0.0	0.0	0.0	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	50.2	21.9	10.3	0.0	28.4	28.4	0.0	0.0	0.0	0.0	Cont	Cont
Initial Spares	0.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont
Total Proc Cost	50.5	22.4	10.9	0.0	28.4	28.4	0.0	0.0	0.0	0.0	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Internally Transportable Vehicles - This funding will be used to procure the Internally Transportable Vehicle (ITV), special tools, and initial training. The ITV is an MV 22 Osprey internally transportable system that replaces the Interim Fast Attack Vehicle (IFAV), and provides infantry, reconnaissance, and special operations forces with a vehicle which can be vertically transported at the ranges and speeds required to support them. The ITV is being used by reconnaissance units, the Marine Expeditionary Unit (MEU) Ground Combat Element (GCE), and Special Operations Command (SOC) units. The ITV program is a USMC led, joint program with the US Special Operations Command.

FY11 Overseas Contingency Operations Request (OCO): \$28.4M

Funds will support procurement of 73 ITV Light Strike Vehicles (LSV). The vehicles will be fielded to support upcoming Marine Expeditionary Unit (MEU) deployments to OEF. The procurement will also support production line activities used for the Expeditionary Fire Support System (EFSS). The combined procurement of the ITV and EFSS prime mover platforms will allow production line operations to continue until the EFSS needs are fully satisfied. The unit costs for the ITV variants are impacted based on quantity differences and the negotiated prices derived from the negotiations.

	Approp Activity	riation/ Budget /Serial No:		P-1 Line Iter	n Nomenclatu	ıre:	Weapon Sys	stem Type:	Date:		
Exhibit P-5 Cost Analysis	/ 06 En	ement Marine (gineer and Oth nent / 6545		Family of Int Vehicle	ernally Transp	portable			F	ebruary 2010	
Weapon System		Prior Yrs		FY 09			FY 10			FY 11	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
<u>Baseline</u>											
Internally Transportable Vehicles		30233	13597	53	256547	9500	40	237500			
Production Support Costs		5116				400					
Vehicle Upgrades			2150								
Logistics		5241	1300			328					
Program Mgmt & Engineering		3328	723			100					
ITV refurbishment		1500	1600								
Blast armor seats		550	2304								
Special parts/various		500									
Fielding		1000	228								
Subtotal Baseline		47468	21902			10328					
oco		41400	2,002			10020			19943	73	273188
Internally Transportable Vehicles									458		
Production Support Costs											
Logistics									5000		
Program Mgmt & Engineering									3000		
									28401		
Subtotal OCO											
Total		47468	21902			10328			28401		
Active		47468	21902			10328			28401		
Reserves		0	0			0			0		
Remarks: FY09 ITV quantity in PBIS is incorrect and will be u	pdated	for the NCB-12	submission.								

	Exhibit P-5a, Budget Procuren	nent Histor	y and Planning					Date: Fe	bruary 2	:010
Appropriation / Budget Activity/Serial No: Procurement Marine Corps (1109) / 06 En	gineer and Other Equipment / 6545	Weapon Sy	stem Type:		P-1 Line I		enclature: nternally Tran	sportable	e Vehicle	Э
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY08 Internally Transportable Vehicle	General Dynamics, St. Petersburg,	FFP	MARCORSYSCOM	May-09	Dec-09	57	264766	YES	NO	Mar-0
FY09 Internally Transportable Vehicle	General Dynamics, St. Petersburg,	FFP	MARCORSYSCOM	May-09	Jun-10	53	256547	YES	NO	Mar-0
FY10 Internally Transportable Vehicle	General Dynamics, St. Petersburg,	FFP	MARCORSYSCOM	Feb-10	Oct-10	40	237500	YES	NO	Mar-0
FY11 (OCO) Internally Transportable Vehicle	General Dynamics, St. Petersburg,	FFP	MARCORSYSCOM	Feb-11	Oct-11	73	273188	YES	NO	Apr-10
REMARKS:	<u> </u>	1	1	1	1		I		1	<u> </u>

	EX	HIBIT	P-21	1, PRC	DUCT	ION SC	CHE	DUL	E											Date	e:				Febr	ıarv '	2010				
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Proc Qty Gross Cost 40.6 0.0 0.0 12.6 0.0 12.6 0.0 0.0 0.0 0.0 0.0 0.0 65 Less PY Adv Proc Puls CY Adv Proc		Exhi	ibit P-40, Bı	udget Item	Justification	n Sheet			Date: February	2010			
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Prior Years FY 2009 FY 2010 Base FY2011 OCO FY2011 Total FY2011 FY 2012 FY 2013 FY 2014 FY 2015 To Complete To Prior City		01p3 (1103)7 00 L	rigineer and O	ther Equipmen		Other Pelated	Program Flomo	inte:		bridge boats			
Prior Years FY 2009 FY 2010 Base FY2011 OCO FY2011 Total FY2011 FY 2012 FY 2013 FY 2014 FY 2015 To Complete To Proc City Gross Cost 40.6 0.0 0.0 12.6 0.0 12.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 65 Gress PY Adv Proc Older Proc (P-1) 40.6 0.0 0.0 12.6 0.0 12.6 0.0 12.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	**	I Divisions Marine	•			Other Related	Frogram Lieme	iiio.					
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Plus CY Adv Proc		40.6	0.0	0.0	12.6	0.0	12.6	0.0	0.0	0.0	0.0	0.0	65.8
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Myn Sys Proc U/C Reserves 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	otal Proc Cost	40.6	0.0	0.0	12.6	0.0	12.6	0.0	0.0	0.0	0.0	0.0	65.8
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Reserves 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Vpn Svs Proc U/C												
Base Appropriation Request: Bridge Boats: The Bridge Boat line is a roll up line that provides wet gap capabilities with a system comprised of Improved Ribbon Bridge, Bridge and Raft Sets, Bridge Erection Boats, trailers, cradles and pallets allowing transport and passage of 80 ton tracked or 100 ton wheeled vehicles. The components are configured in Bridge Sets or Raft Sets to create an Improve Ribbon Bridge system. A Bridge Set consists of 12 interior and 5 ramp bays. A Raft Set consists of 5 interior and 2 ramp bays. The distance of the wet gap to be spanned and the water current velocity determines the use of the Bridge Set or the Raft Set and the number of Bridge Erection Boats needed to emplace the Bridge System. This effort fulfills the	. ,												
Base Appropriation Request: Bridge Boats: The Bridge Boat line is a roll up line that provides wet gap capabilities with a system comprised of Improved Ribbon Bridge, Bridge and Raft Sets, Bridge Erection Boats, trailers, cradles and pallets allowing transport and passage of 80 ton tracked or 100 ton wheeled vehicles. The components are configured in Bridge Sets or Raft Sets to create an Improve Ribbon Bridge system. A Bridge Set consists of 12 interior and 5 ramp bays. A Raft Set consists of 5 interior and 2 ramp bays. The distance of the wet gap to be spanned and the water current velocity determines the use of the Bridge Set or the Raft Set and the number of Bridge Erection Boats needed to emplace the Bridge System. This effort fulfills the			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	CON
operational requirements to support stringing and amphibitions for times active brings companies, and times prepositioning squadrons.	Bridge Boats:		that provides	s wet gap cap	pabilities with a	a system com	prised of Impr	oved Ribbon	Bridge, Bridge a	nd Raft Sets, I	Bridge Erection	on Boats, traile	ers,
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
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	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge systewater current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge systewater current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
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	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the
	Bridge Boats: The Bridge Boat line cradles and pallets a Ribbon Bridge syste water current velocit	e is a roll up line allowing transpo em. A Bridge Se ty determines th	ort and passa et consists of ne use of the	ge of 80 ton to 12 interior ar Bridge Set or	tracked or 100 nd 5 ramp bays the Raft Set a	ton wheeled s. A Raft Set and the numb	vehicles. The consists of 5 i er of Bridge Er	components nterior and 2 rection Boats	are configured i ramp bays. The needed to empla	n Bridge Sets distance of thace the Bridge	or Raft Sets to be wet gap to System. Thi	o create an Im be spanned a is effort fulfills	proved nd the the

Exhibit P-5 Cost Analysis	Appro Procu	rement, Mar	udget Activi ine Corps (1 ier Equipme	ity/Serial No 1109) / 06 Er nt / 6548	o: ngineer and	Nomenclature: T Bridge Boats			on System Date: Type: February 2010		
Weapon System Cost Elements	ID CD	Prior Yrs Total	Total Cost \$000	FY 09 Qty Each	Unit Cost	Total Cost	FY 10 Qty Each	Unit Cost \$	Total Cost \$000	FY 11 Qty Each	Unit Cost \$
Baseline Bridge Components Includes various quantities of Interior Bays, Ramp Bays, Bridge Erection Boats, Boat Trailers and Boat Cradles		40573	COST \$000	-	*	\$000	Each	*	12567	-	VAR
TOTAL ACTIVE RESERVE		40573 40573				0 0 0			12567 8255 4312		

	Exh	ibit P-40, B	udget Item	Justification	n Sheet			Date:		February 20	10			
Appropriation / Budg	•					P-1 Item Nom								
Procurement, Marine	e Corps (1109) /	06 Engineer a	and Other Eq	uipment / 661:	t / 6613 Family of Combat Field Feeding System (Formerly Rapid Deployable Kitche									
Program Elements: 0206315M Force Se	rvice Support Gr	oup		Code: A	Other Relate	d Program Ele	ments:							
	Prior Years	FY 2009	FY 2010		OCO FY 2011	Total FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog		
Proc Qty														
Gross Cost	23.9	4.6	2.2	4.3	0.0	4.3	5.0	5.1	5.2	5.3	Cont	Cont		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	23.9	4.6	2.2	4.3	0.0	4.3	5.0	5.1	5.2	5.3	Cont	Cont		
Initial Spares	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont		
Total Proc Cost	23.9	5.0	2.2	4.3	0.0	4.3	5.0	5.1	5.2	5.3	Cont	Cont		
Flyaway U/C														
Wpn Sys Proc U/C														
Reserves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Cont	Cont		

Family of Combat Field Feeding System: Consists of those items used to store, prepare, transport, & serve combat rations in a non-garrison environment while maintaining force protection through distributed operations and sanitation capabilities:

Tray Ration Heater System (TRHS) Product Improvement Program (PIP) 13y old Tanks PIP for the 13 year old tanks of the TRHS are an update to the current tanks and will replace the tanks that have been in service and are at the end of their life cycle.

E-TRHS PIP M59 Field Range: PIP for the M59 Field Range is to update the ranges to current technology for the use of the airtronic burner. This will satisfy the Marine Corps' need for a burner service and a one fuel battlefield.

Food & Beverage Containers: Allows hot or cold meals to be transported from preparation sites and delivered to forward feeding areas. The life cycle replacement for Marine Corps unique food and beverage containers will be a standard system item in use by other services to facilitate logistics and interoperability.

Expeditionary Field Kitchen (EFK): Intended to provide a rapidly mobile feeding capability that has a minimal logistic load on the using command. Leverages existing Army and Marine Corps hardware to achieve the capability of supporting 500 personnel per meal with a trailer mounted 20ft ISO container that can be used on the trailer or ground mounted.

Burner Modification (Airtronic): Intended to replace the Airtronic Burner or update the Airtronic Burner.

Exhibit P-40a, Budget Item Justificat	ion for	Aggrega	ted Items			Date:	February 201	0
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 06 Engineer and Other Equipm	nent / 66	613					System (Form	
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011
TRHS PIP 13y old Tanks	Α	D Q	1.789 28.0	0.000	0.882 45	0.000	0.000	0.000
E-TRHS PIP M59 Field Range	Α	D Q	1.213 20.0	0.000	0.143 60	0.000	0.000	0.000
Food and Beverage Containers	A	D Q	1.842 5296.0	0.000	0.000	0.244 1254	0.000	0.244 1254
Expeditionary Field Kitchen (EFK)	A	D Q	18.587 76.0	3.962 9	1.182	4.039	0.000	4.039 8
Burner Modification (Airtronic)	A	D Q	0.425 0.0	0.663 192	0.000	0.000	0.000	0.000
Total Active Reserves			23.856 23.856 0.000	4.625 4.625 0.000	2.207 2.207 0.000	4.283 4.283 0.000	0.000 0.000 0.000	4.283 4.283 0.000
			_					_

	Exhibit P-40,	Budget It	em Justifi	cation Sh	eet		Date:		Feb	oruary 201	0			
Appropriation / Budg	et Activity/Serial	No:				P-1 Item Nomenclature:								
Procurement, Marine	e Corps (1109) /	06 Enginee	r and Other	Equipment	/ 6670	Items less than \$5 Million								
Program Elements: 0206315M Force Se	rvice Support G	roup		Code: A	Other Rela	ated Program	Elements:							
	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total		
Proc Qty														
Gross Cost	271.6	16.6	47.8	7.6	0.0	7.6	5.7	5.8	4.5	4.5	CONT	CONT		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	271.6	16.6	47.8	7.6	0.0	7.6	5.7	5.8	4.5	4.5	CONT	CONT		
Initial Spares														
Total Proc Cost	271.6	16.6	47.8	7.6	0.0	7.6	5.7	5.8	4.5	4.5	CONT	CONT		
Flyaway U/C														
Wpn Sys Proc U/C														
Reserves		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	CONT		

This is a roll-up line of various engineering efforts, modifications and other related items less than \$5 Million each.

Corrosion Prevention and Control (Dehumidified Storage Buildings) - Corrosion Prevention and Control (CPAC) funds will be used to install controlled humidity protection shelters to reduce and/or eliminate the negative effect of wind, rain, salt, ultra violet rays, chemical, mildew, rust, mold, sand etc on Marine Corps assets. Corrosion control focus is on maintaining and preserving equipment in an operating state during each items' service life. CPAC will also procure Vapor Corrosion Inhibitor (VCI) covers for tactical vehicles.

Engineer Equipment Armoring - This program provides for significant improvements to a various pieces of engineering equipment by enhancing their capabilities and protection from direct fire, indirect fire and Improvised Explosive Devices.

Engineer Modification Kits - This program provides for significant improvements to a various pieces of engineering equipment by enhancing their capabilities and improving readiness.

Family of Tools, Kits and Chests provide specific tool kits, including the specific chest or case to store and transport the tools, to perform specific missions assigned to engineer units, such as carpentry, grubbing or clearing areas with pioneer type tools, destruction/demolition, masonry, electrical (base camp support), plumbing, etc. Construction Shop Kit; Pioneer Platoon Kit; Pioneer Squad Kit; Carpenter Kit; Mason Kit - funding fluctuation is due to program being accelerated.

Interim Passenger Helo Aircrew Breathing Device (IPHABD) - This system consists of a flotation collar, an air source (air bottle with regulator) with bottle holster, and a Location Marking Kit (LMK) consisting of a dye marker, strobe light, whistle, and "buddy line". This system is maintained by the Helicopter Squadrons and is given by the crew chief to each passenger boarding a USMC helicopter which flies over water. This increases the passenger's chance of surviving an over-water crash.

Stand Off Detection Robots - Central element in force protection. Supports procurement for Marine Corps Engineer School for Home Station Training for engineer units support to maneuver, safety, and force protection, particularly of convoys.

Exhibit P-40a, Budget Item Justifica	ion fo	r Aggr	egated Items	5		Date:	F	ebruary 201	0	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / 06 Engineer and Other Equipr	nent / 6	670		P-1 Item No		an \$5 Million				
Procurement Items	Code	UOM	Prior Years	FY 2009	FY 2010	Base FY2011	OCO FY2011	Total FY2011		
Corrosion Prevention and Control	А	D Q	6.800 VAR	3.497	0.490 VAR	0.485 VAR	0.000	0.485 VAR		
Standoff Detection and Robot (PACKBOT)	A	D	0.000	0.000	4.095	0.000	0.000	0.000		
		Q			VAR					
Family of Engineer Tool Kits, Sets and Chests			9.187	2.168	2.132	2.159	0.000	2.159		
, , , , , , , , , , , , , , , , , , , ,			VAR	VAR	VAR	VAR		VAR		
Tota Active	1			5.665 5.665	6.717 6.717		0.000	2.644 2.644		
Reserves				0.000	0.000		0.000	0.000		

Exhibit P-5 Cost Analysis	Activity Procur (1109)	oriation/ Budg //Serial No: ement Marin / 06 Enginee nent / 6670	e Corps	P-1 Line Item			Weapon Syst	ет Туре:	Date:	ebruary 201	0
Weapon System		Prior Yrs		FY 09			FY 10			FY 11	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Baseline Engineer Mod Kits Engineer Equipment Armoring		13626	5661	VAR	VAR	4856 34960				VAR	VAR
Interim Pass Helo Aircrew Breathing Device		8494	5243	VAR	VAR	1287	VAR	VAR			
Subtotal Baseline		22120	10904			41103			4928		
TOTAL ACTIVE RESERVE		22120 22120	10904 10904 0			41103 41103 0			4928 4928 0		

P-1 tem Nomenclature: SPARES AND REPAIR PARTS	Propress Proposition Pro			E	xhibit P-40	, Budget I	tem Justifi	cation She	eet				Date:	an. 2010
SPARES AND REPAIR PARTS SPARES AND REPAIR PARTS SPARES AND REPAIR PARTS	SPARES AND REPAIR PARTS SPARES AND REPAIR PARTS SPARES AND REPAIR PARTS	Appropriation / Budget	Activity/Sorial No.			,					D 1 Itom Non	annolatura:	Febru	ary 2010
Prior Years FY 2009 FY 2010 FY2011 FY2011 FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 To Complete Total	Prior Years FY 2009 FY 2010 FY2011 FY2011 FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 To Complete Total		-		epair Parts / 7	000							IR PARTS	
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E	xhibit P-18, Initial and Replenishment Spare	& Repair P	arts Justifi	cation	Date:		Februa	ary 2010		
Appro	opriation / Budget Activity/Serial No:			Weapon S	ystem	P-1 Item N	lomenclatu	re:		
Procu	rement, Marine Corps (1109) / 07 Spares / 700	00					SPARES	AND REPA	IR PARTS	
	End Item P-1 Line	BLI	Prior Yrs	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
BA 2	WEAPONS AND TRACKED VEHICLES									
	EXPEDITIONARY FIGHTING VEHICLE	202200*	7,057	0	0	0	17,382	21,307	21,867	22,453
2	LAV PIP & LETHALITY	203800*	11,836	54	0	0	0	0	0	0
9	MODIFICATION KITS	206100*	4,484	0	0	0	0	0	0	0
4	EXPEDITIONARY FIRE SUPPORT SYS	206400*	1,096	0	0	0	0	0	0	0
3	M1A1 FIREPOWER ENHANCEMENTS	209500*	4,436	0	0	0	0	0	0	0
5	LT WT 155MM TOWED HOW (LW155)	218500	6,243	4,674	2,904	0	0	0	0	0
6	HIMARS	221200*	6,577	3,047	1,125	0	0	0	0	0
8	MODULAR WEAPON SYSTEM	233400*	642	0	0	0	0	0	0	0
	TOTAL BA 2		42,371	7,775	4,029	0	17,382	21,307	21,867	22,453
	GUIDED MISSILES AND EQUIPMENT									
	GROUND BASED AIR DEFENSE	300600	0	176	1,832	0	0	0	0	0
13	FOLLOW ON TO SMAW	301600*	0	0	0	1,604	591	285	0	0
	TOTAL BA 3		0	176	1,832	1,604	591	285	0	0
BA 4	COMMUNICATIONS AND ELECTRONIC EQU	IPMENT								
17	REPAIR AND TEST EQUIPMENT	418100	2,893	1,444	286	295	559	574	584	593
27	COMMON COMPUTER RESOURCES	463000	0	415	198	1,219	7,470	7,579	609	165
28	COMMAND POST SYSTEMS	463100*	2,433	0	15,432	0	0	0	0	0
29	RADIO SYSTEMS	463300	26,784	3,073	4,420	178	184	188	192	197
30	COMM SWITCHING & CONTROL SYS	463400	5,445	510	0	0	0	0	0	0
23	INTELLIGENCE SUPPORT EQUIPMENT	474700*	21,893	0	147	165	532	539	550	563
26	NIGHT VISION MOD	493000*	4,453	0	1,494	0	0	0	0	0
	TOTAL BA 4		63,901	5,442	21,977	1,857	8,745	8,880	1,935	1,518
BA 5	SUPPORT VEHICLES									
37	LOGISTICS VEHICLE SYSTEM REPL	509300	0	0	11,121	9,419	0	0	0	0
37	FLATRACK	509300	0	438	385	0	0	0	0	0
38	FAMILY OF TACTICAL TRAILERS	509700*	418	768	592	0	0	0	0	0
	TOTAL BA 5		418	1,206	12,098	9,419	0	0	0	0

Е	xhibit P-18, Initial and Replenishment Spare	& Repair P	arts Justifi	cation	Date:		Februa	ry 2010		
Appro	opriation / Budget Activity/Serial No:			Weapon S	ystem	P-1 Item N		•		
Procu	urement, Marine Corps (1109) / 07 Spares / 70	00		·			SPARES A	AND REPA	AIR PARTS	
P-1#	End Item P-1 Line	BLI	Prior Yrs	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
BA 6	ENGINEER AND OTHER EQUIPMENT									•
49	MATERIAL HANDLING EQUIPMENT	646200*	74	100	99	97	97	97	99	102
45	AMPHIBIOUS SUPPORT EQUPMENT	651800*	1,478	0	254	0	0	0	0	0
45	IMPROVED RIBBON BRIDGE (IRB)	651800*	0	0	45	0	0	0	0	0
46	EOD SYSTEMS - ABV & CREW	652000*	5,470	559	0	0	0	11,176	11,224	11,530
51	FAMILY OF FIELD MEDICAL EQUIPMENT	652200*	1,305	505	498	500	546	545	551	562
52	TRAINING DEVICES	653200*	173	51	49	47	48	48	50	52
55	FAMILY OF ITV	654500	264	468	538	0	0	0	0	0
57	RAPID DEPLOYABLE KITCHEN	661300*	52	373	0	0	0	0	0	0
	TOTAL BA 6		8,816	2,056	1,483	644	691	11,866	11,924	12,246
	TOTAL SPARES		115,506	16,655	41,419	13,524	27,409	42,338	35,726	36,217

^{*}Spares through prime vendor vice Navy Working Capital Fund (NWCF).