Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy										DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*							
COST ($ in Millions)	**FY 2009 Actual**	**FY 2010 Estimate**	**FY 2011 Base Estimate**	**FY 2011 OCO Estimate**	**FY 2011 Total Estimate**	**FY 2012 Estimate**	**FY 2013 Estimate**	**FY 2014 Estimate**	**FY 2015 Estimate**	**Cost To Complete**	**Total Cost**
Total Program Element	10.307	20.479	19.466	0.000	19.466	15.682	12.031	8.295	8.632	Continuing	Continuing
0201: *Logistical Veh Sys Replacement (LVSR)*	2.567	1.482	1.487	0.000	1.487	0.000	0.000	0.000	0.000	0.000	48.205
2316: *Combat Service Support Eng Equip*	0.535	10.263	10.135	0.000	10.135	11.636	7.691	3.891	4.057	Continuing	Continuing
2509: *Motor Transport Mod*	3.233	2.122	4.644	0.000	4.644	0.749	0.961	0.928	1.007	Continuing	Continuing
2929: *Testing Measuring Diag Equip & SE*	3.972	1.488	1.528	0.000	1.528	1.567	1.608	1.646	1.679	Continuing	Continuing
9999: *Congressional Adds*	0.000	3.505	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.251
9C90: *MTVR Mod*	0.000	1.619	1.672	0.000	1.672	1.730	1.771	1.830	1.889	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element (PE) provides funding for Marine Air-Ground Task Force requirements for Combat Service Support equipment improvement. It will enhance combat breaching capabilities of the ground combat elements, logistics, maintenance and transportation. The PE also provides improvements in all areas of Combat Service Support Equipment Vehicles by determining the replacement for the heavy, medium and light fleet vehicles. Alternative Power Sources for Communications Equipment (APSCE) is a suite of devices that provide the commander with the capability to use existing power to operate his communication equipment, computers and peripheral equipment instead of using batteries or fossil fuel generators. The Marine Corps Family of Automatic Test Systems (ATS), formerly TETS, provides automatic testing capability for use by technicians both in garrison and forward edge of Battlefield.

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy	DATE: February 2010
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B. Program Change Summary ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	9.620	17.057	0.000	0.000	0.000
Current President's Budget	10.307	20.479	19.466	0.000	19.466
Total Adjustments	0.687	3.422	19.466	0.000	19.466
• Congressional General Reductions		-0.086			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	-0.012			
• Congressional Adds		3.520			
• Congressional Directed Transfers		0.000			
• Reprogrammings	1.245	0.000			
• SBIR/STTR Transfer	-0.558	0.000			
• Program Adjustments	0.000	0.000	19.466	0.000	19.466

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2009	FY 2010
Project: 9999: *Congressional Adds*		
Congressional Add: *High Performance Capabilities for Military Vehicles Project*	0.000	1.115
Congressional Add: *Marine Personnel Carrier Support System*	0.000	2.390
Congressional Add Subtotals for Project: 9999	0.000	3.505
Congressional Add Totals for all Projects	0.000	3.505

Change Summary Explanation

FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 0201: *Logistical Veh Sys Replacement (LVSR)*	

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0201: *Logistical Veh Sys Replacement (LVSR)*	2.567	1.482	1.487	0.000	1.487	0.000	0.000	0.000	0.000	0.000	48.205
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Logistical Vehicle System Replacement (LVSR) program will replace the current Logistical Vehicle System (LVS) fleet. This vehicle will increase mobility, maintainability, and reliability for the heavy fleet, while increasing off-road payload. Three LVSR variants will replace the current five LVS variants. The Cargo variant will be fielded prior to the LVSR Tractor and Wrecker variants which are options on the LVSR cargo variant production contract. The Flatrack Refueling Capability (FRC) program will replace the M970 Semi-Trailer refueling in both the Force Service Support Group (FSSG) and the Marine Air Wings (MAWs) for ground refueling missions.

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
*LVSR: Test and Evaluation *FY 2009 Accomplishments:* LVSR Corrosion Test and Evaluation; Cargo Safety/Verification Testing;	0.683	0.000	0.000	0.000	0.000
*LVSR: Engineering/Program Management *FY 2009 Accomplishments:* Test Planning, review and analysis *FY 2010 Plans:* Test Planning, review and analysis	0.150	0.200	0.000	0.000	0.000
*LVSR: Engineering Support	1.085	0.000	1.487	0.000	1.487

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: LVSR Armor Fire Suppression Testing *FY 2011 Base Plans:* Development of Engineering Change Proposals (ECPs)					
*LVSR: Operational Test and Evaluation *FY 2010 Plans:* IOT&E	0.000	1.282	0.000	0.000	0.000
FRC *FY 2009 Accomplishments:* EMD Contracts	0.649	0.000	0.000	0.000	0.000
Accomplishments/Planned Programs Subtotals	2.567	1.482	1.487	0.000	1.487

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PMC (BLI# 509300): *LVSR*	255.144	275.941	133.827	109.100	242.927	2.549	2.597	2.642	2.688	0.000	1,030.788

D. Acquisition Strategy

The Logistics Vehicle System Replacement (LVSR) program consists of two separate phases. During the first phase, the System Development and Demonstration (SD&D) phase, two contracts were awarded to procure prototypes for developmental testing. The winner of the SD&D phase was awarded a production contract to produce Low Rate Initial Production (LRIP) vehicles for operational testing. The other two LVSR variants, the Tractor and Wrecker variants have been designed, built and are being tested under the LVSR Cargo production contract.

The Flatrack Refueling Capability (FRC) program original acquisition strategy consisted of a joint procurement contract with the US Army. FY07 RDTE funds were used to procure two prototypes developed by DSR Systems, Inc. After development and initial testing the Army decided not to procure the DSR system. Our revised

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acquisition strategy will only include US Marine Corps requirements. Further analysis has resulted in the new acquisition strategy focused to contract for Commercially available Items via a Small Business Set Aside procurement. These funds will procure one prototype for Developmental TEsting and Field Users Evaluation (FUE). After successfully testing we will procure the AO.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 0201: *Logistical Veh Sys Replacement (LVSR)*

Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LVSR Variant Prototypes	Reqn	MCSC Quantico, VA	16.793	0.000		0.000		0.000		0.000	0.000	16.793	Continuing
LVSR Source Selection	Reqn	MCSC Quantico, VA	0.248	0.000		0.000		0.000		0.000	0.000	0.248	Continuing
FRC Prototypes	Reqn	DSR Systems, Inc. Not Specified	3.920	0.000		0.000		0.000		0.000	0.000	3.920	Continuing
FRC Prototypes	Reqn	TBD Not Specified	0.637	0.000		0.000		0.000		0.000	0.000	0.637	Continuing
		Subtotal	21.598	0.000		0.000		0.000		0.000	0.000	21.598	

Remarks

Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LVSR Engineer & Tech Support	WR	NTSC Orlando, FL	0.194	0.000		0.000		0.000		0.000	0.000	0.194	Continuing
LVSR Engineer Change Support	Reqn	MCSC Quantico, VA	1.654	0.000		0.787	Dec 2010	0.000		0.787	0.000	2.441	Continuing
		Subtotal	1.848	0.000		0.787		0.000		0.787	0.000	2.635	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
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Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks													

Test and Evaluation ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LVSR Operational T&E	WR	MCOTEA Not Specified	2.770	1.282	Feb 2010	0.700	Dec 2010	0.000		0.700	0.000	4.752	Continuing
LVSR Operational T&E	WR	Fort Greely and 29 Palms Not Specified	0.100	0.000		0.000		0.000		0.000	0.000	0.100	Continuing
LVSR Operational T&E	Reqn	Oshkosh Corp Oshkosh, WI	0.330	0.000		0.000		0.000		0.000	0.000	0.330	Continuing
LVSR Development Design & Test	Reqn	Oshkosh Corp Oshkosh, WI	0.175	0.000		0.000		0.000		0.000	0.000	0.175	Continuing
LVSR Variant Test	MIPR	TACOM Warren, MI	0.110	0.000		0.000		0.000		0.000	0.000	0.110	Continuing
LVSR Corrosion Test	WR	NSWC Philadelphia, PA	0.217	0.000		0.000		0.000		0.000	0.000	0.217	Continuing
LVSR Development Test	MIPR	Aberdeen Test Center Aberdeen, MD	5.645	0.000		0.000		0.000		0.000	0.000	5.645	Continuing
LVSR Development Test	Reqn	Oshkosh Corp	1.622	0.000		0.000		0.000		0.000	0.000	1.622	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
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Test and Evaluation ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Oshkosh, WI											
LVSR Development and Test	WR	NSWC Indian Head, MD	0.024	0.000		0.000		0.000		0.000	0.000	0.024	Continuing
LVSR Live Fire	Reqn	SURVICE Not Specified	0.410	0.000		0.000		0.000		0.000	0.000	0.410	Continuing
FRC Modeling and Simulation	Reqn	NSWC Carderock, MD	0.355	0.000		0.000		0.000		0.000	0.000	0.355	Continuing
FRC Developmental T&E	Reqn	NATC Carson City, NV	0.605	0.000		0.000		0.000		0.000	0.000	0.605	Continuing
		Subtotal	12.363	1.282		0.700		0.000		0.700	0.000	14.345	

Remarks

Management Services ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LVSR Contractor Support	Reqn	TBD Not Specified	4.079	0.100	Feb 2010	0.000		0.000		0.000	0.000	4.179	Continuing
LVSR Program Management Support	WR	MCSC Quantico, VA	0.798	0.100	Feb 2010	0.000		0.000		0.000	0.000	0.898	Continuing
FRC Contractor Support	Reqn	Sverdrup	0.050	0.000		0.000		0.000		0.000	0.000	0.050	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 0201: *Logistical Veh Sys Replacement (LVSR)*

Management Services ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Dumfries, VA											
FRC Program Management Support	WR	MCSC Quantico, VA	0.050	0.000		0.000		0.000		0.000	0.000	0.050	Continuing
		Subtotal	4.977	0.200		0.000		0.000		0.000	0.000	5.177	

Remarks

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	40.786	1.482		1.487		0.000		1.487	0.000	43.755	

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*				PROJECT 2316: *Combat Service Support Eng Equip*			
COST ($ in Millions)	**FY 2009 Actual**	**FY 2010 Estimate**	**FY 2011 Base Estimate**	**FY 2011 OCO Estimate**	**FY 2011 Total Estimate**	**FY 2012 Estimate**	**FY 2013 Estimate**	**FY 2014 Estimate**	**FY 2015 Estimate**	**Cost To Complete**	**Total Cost**
2316: *Combat Service Support Eng Equip*	0.535	10.263	10.135	0.000	10.135	11.636	7.691	3.891	4.057	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project includes improvements in all areas of the M1A1 main battle tank. The M1A1 tank provides armor protected firepower to the USMC ground combat element. Its advanced thermal sights provide superior target acquisition and target identification. Coupled with its 120mm cannon and suite of ammunition, it is the primary armor defeating weapon on the battlefield, that also provides lethal supporting fires to supported maneuver units. Continued funding is required to address obsolescence and support pre-planned product improvements.
Corrosion Prevention and Control Program (CPAC): Funding will also address corrosion prevention and control issues for all Marine Corps tactical ground and ground support equipment. CPAC RDT&E funding will identify corrosion prone areas of legacy systems against new process, procedure and material solutions and new technologies for implementation during system acquisition. The M1A1 Survivability/Lethality Program effort includes critical product improvements including the application of additional armor, integration of counter-sniper fire technology, and improvement to existing secondary armanment systems. These improvements directly address Marine Corps Lessons Learned, after action reports, and will ensure maximum survivability.

Route Reconnaissance and Clearance (R2C). A spiral development project enhances the capabilities of the R2C systems, a family of systems fielded in support of Operation Iraqi Freedom (OIF) via the Urgent Needs Statement (UNS) process. This research and development effort will integrate future vehicles, robots, and associated equipment to provide standoff detection, marking, and neutralization of Explosive Hazards such as mines and Improvised Explosive Devices (IEDs). Enhancements for R2C will provide capabilities not found in the current inventory to defeat explosive hazards and will protect Marines and equipment while conducting route and area clearance operations. The integration of the next generation of armored security and support vehicles, Vehicle Mounted Mine Detectors (VMMDs), specialized robots, and a new suite of detection, marking, and neutralization systems will enable maneuver commanders to make timely and informed decisions in avoiding or neutralizing 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, while standoff and remote-controlled detection, marking, and neutralization capabilities will enhance force protection and system survivability. Operational speeds and rates will increase, which will better support the maneuber force operational tempo.

The Assault Breacher Vehicle (ABV) is a tracked combat engineer vehicle that provides deliberate and in-stride breaching capability of minefields and complex obstacles to the Ground Combat Element (GCE) of the Marine Air Ground Task Force (MAGTF). The ABV combines crew protection and vehicle survivability with the speed and mobility to keep pace with the maneuver force. The ABV is assigned to and employed by the Combat Engineer Battalion (CEB) as part of a synchronized

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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operation to rapidly breach obstacles and create lanes for the MAGTF. FY2010 / FY2011 funding will be used to develop a Counter Improvised Explosive Device (CIED) capability, integrate an Insensitive Munition (IM) compliant line charge and integrate mine roller capability for the system. Standoff CIED capability from under armor will provide a significant increase in system flexibility and lethality while improving crew protection. An IM compliant line charge will permit safe loading of the charge while on the transport vessel well deck, enabling the ABV to begin performing its mission immediately upon touching the beach. Thus, the crew will not be forced to load the line charge on the shore, possibly under fire. Integration of a mine roller will increase the ABVs proofing capability, thus increasing mine clearing performance.

Corrosion Prevention and Control: The useful life of Marine Corps assets will be extended through a comprehensive CPAC RDT&E program aimed at identifying and certifying new corrosion control products, materials, processes and procedures for legacy and new acquisition.

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
*CSSEE: M1A1 Survivability/Lethality Program	0.000	0.473	1.967	0.000	1.967
FY 2010 Plans: The M1A1 Survivability/Lethality Program effort includes critical product improvements including the application of additional armor, integration of counter-sniper fire technology, and improvement to existing secondary armanment systems. These improvements directly address Marine Corps Lessons Learned, after action reports, and will ensure maximum survivability.					
FY 2011 Base Plans: The M1A1 Survivability/Lethality Program effort includes critical product improvements including the application of additional armor, integration of counter-sniper fire technology, and improvement to existing secondary armanment systems. These improvements directly address Marine Corps Lessons Learned, after action reports, and will ensure maximum survivability.					
*CSSEE: M1A1 Modifications	0.535	1.216	1.453	0.000	1.453
FY 2009 Accomplishments: This project includes improvements in all areas of the M1A1 main battle tank. The M1A1 tank provides armor protected firepower to the USMC ground combat element. Its advanced thermal sights					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
provide superior target acquisition and target identification. Coupled with its 120mm cannon and suite of ammunition, it is the primary armor defeating weapon on the battlefield, that also provides lethal supporting fires to supported maneuver units. Continued funding is required to address obsolescence and support pre-planned product improvements. Modification includes safety, reliability, corrosion control, and technology up-grades to meet Marine Corps requirements. *FY 2010 Plans:* This project includes improvements in all areas of the M1A1 main battle tank. The M1A1 tank provides armor protected firepower to the USMC ground combat element. Its advanced thermal sights provide superior target acquisition and target identification. Coupled with its 120mm cannon and suite of ammunition, it is the primary armor defeating weapon on the battlefield, that also provides lethal supporting fires to supported maneuver units. Continued funding is required to address obsolescence and support pre-planned product improvements. Modification includes safety, reliability, corrosion control, and technology up-grades to meet Marine Corps requirements. *FY 2011 Base Plans:* This project includes improvements in all areas of the M1A1 main battle tank. The M1A1 tank provides armor protected firepower to the USMC ground combat element. Its advanced thermal sights provide superior target acquisition and target identification. Coupled with its 120mm cannon and suite of ammunition, it is the primary armor defeating weapon on the battlefield, that also provides lethal supporting fires to supported maneuver units. Continued funding is required to address obsolescence and support pre-planned product improvements. Modification includes safety, reliability, corrosion control, and technology up-grades to meet Marine Corps requirements.					
*Route Reconnaissance and Clearance (R2C):	0.000	3.485	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: (U) Route Reconnaissance and Clearance (R2C): Support a research and development effort to integrate future R2C vehicles with enhanced mobility and survivability, a suite of improved detection and marking capabilities, and robots with greater detection, marking, and neutralization capabilities.					
*R2C: Program management and engineering support *FY 2010 Plans:* Program management and engineering support. *FY 2011 Base Plans:* Program management and engineering support.	0.000	0.978	0.987	0.000	0.987
*R2C: Conduct Developmental Testing *FY 2010 Plans:* Developmental Testing. *FY 2011 Base Plans:* Developmental Testing.	0.000	0.429	1.914	0.000	1.914
*Assault Breacher Vehicle (ABV) *FY 2010 Plans:* ABV: Three(3) identified system improvements/upgrades: Improve Counter Improvised Explosive Device (CIED) capability, integrity Insensitive Munitions (IM) compliant line charge, and integration of a vehicle width mine roller.	0.000	1.522	1.533	0.000	1.533

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: ABV: Three(3) identified system improvements/upgrades: Improve Counter Improvised Explosive Device (CIED) capability, integrity Insensitive Munitions (IM) compliant line charge, and integration of a vehicle width mine roller.					
Corrosion Prevention and Control *FY 2010 Plans:* 2010 Plans is to use Goverment labs, NSWC and NRL to sccomplish all RDT&E tasking. NSWCCD and NRL have proven expertise in corrosion control and have proven success. Labs will be test various CPC's for implementation in TM-4795-12 *FY 2011 Base Plans:* Based on the success of testing, plan will be too continue to use Goverment labs, NSWC and NRL to sccomplish all RDT&E tasking.	0.000	2.160	2.281	0.000	2.281
Accomplishments/Planned Programs Subtotals	0.535	10.263	10.135	0.000	10.135

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PMC/6520001: *EOD Systems-R2C*	0.000	21.758	19.847	29.722	49.569	33.149	34.317	59.635	65.983	Continuing	Continuing
• PMC/6520002: *EOD Systems-ABV*	25.000	20.691	21.195	0.000	21.195	0.000	0.000	0.000	0.000	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2316: *Combat Service Support Eng Equip*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PMC/667000: *CPAC*	0.000	0.490	0.485	0.000	0.485	0.485	0.484	0.579	0.577	0.000	3.100

D. Acquisition Strategy

(U) The M1A1 MODIFICATION Program leverages Army developmental programs to create a system that more readily meets Marine Corps requirements. Modification includes safety, reliability, corrosion control, and technology up-grades to meet Marine Corps requirements. M1A1 Mods will exercise options on existing contracts of varying types to conduct research and analysis associated with the development of modifications and corrosion prevention to the M1A1 Tank and supporting platforms.

(U) The M1A1 Survivability/Lethality Program will utilize Army initiatives and programs (such as Belly Armor and Universal Headrest) as much as possible. However, it will also require modifications to some Army efforts (such as
the Mine Resistant Seat and Rear View Sensor System). Lastly, it involves unilateral USMC efforts to research, develop, and evaluate programs to improve the survivability and lethality of the USMC tank. These efforts include the Improved Loader's Weapon Station, Laser Rangefinder/Designator, Laser Warning System, Tank Commander's Forward Unity Periscope upgrade, and Counter Sniper Protection Systems. When possible, these programs will use existing Army contracts and internal contracting activities when required.

(U) Route Reconnaissance and Clearance (R2C): Starting in FY10, procure a fleet of standardized Route Reconnaissance and Clearance systems based upon the successful route clearance teams operating in Iraq; use Capabilities Production Documents for current systems and leverage contracts already in place. Concurrently support a research and development effort to integrate future vehicles with enhanced mobility and survivability, a suite of improved detection and marking capabilities, and robots with greater detection, marking, and neutralization capabilities.

(U) Corrosion Prevention and Control (CPAC) Program The Program will execute the RDT&E Program through direct allocation of funding to the Naval Surface Warfare Center - Carderock Division Corrosion Research and Engineering Branch for comprehensive program aimed at identifying and certifying new corrosion control products, materials, processes and procedures for legacy and new acquisition.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2316: *Combat Service Support Eng Equip*

Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
M1A1 MODIFICATIONS	C/CPFF	TACOM TACOM	0.640	0.771	Jan 2010	0.892	Jan 2011	0.000		0.892	0.000	2.303	Continuing
M1A1 MODIFICATIONS	C/FFP	ABERDEEN PRV APG, MD	0.725	0.445	Dec 2009	0.561	Dec 2010	0.000		0.561	0.000	1.731	Continuing
M1A1 MODIFICATIONS	C/FFP	YUMA TEST CENTER YUMA, AZ	0.082	0.000		0.000		0.000		0.000	0.000	0.082	Continuing
M1A1 MODIFICATIONS	C/FFP	CEOSS (MCSC) MCB QUANTICO, VA	0.107	0.000		0.000		0.000		0.000	0.000	0.107	Continuing
M1A1 MODIFICATIONS	C/FFP	FORT BELVOIR FORT BELVOIR, VA	0.200	0.000		0.000		0.000		0.000	0.000	0.200	Continuing
M1A1 MODIFICATIONS	SS/FFP	BENET LABS WATERVELIET, NY	0.250	0.000		0.000		0.000		0.000	0.000	0.250	Continuing
M1A1 MODIFICATIONS	C/FFP	PICATINNY ARSENAL PICATINNY, NJ	0.414	0.000		0.000		0.000		0.000	0.000	0.414	Continuing
M1A1 SLES	C/CPFF	NCSC MCB QUANTICO, VA	0.000	0.473	Dec 2009	1.967	Dec 2010	0.000		1.967	0.000	2.440	Continuing
JAB Development	C/FFP	MCSC Quantico, VA	2.225	0.000		0.000	Dec 2010	0.000		0.000	0.000	2.225	Continuing
ABV CIED Dev and Integration	Various/ Various	Various Various	0.000	0.912	Feb 2010	1.533	Nov 2010	0.000		1.533	0.000	2.445	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2316: *Combat Service Support Eng Equip*

Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
R2C Sys Articles & Integration	Various/ Various	Various Various	0.000	3.485	Nov 2009	0.000	Nov 2010	0.000		0.000	0.000	3.485	Continuing
		Subtotal	4.643	6.086		4.953		0.000		4.953	0.000	15.682	

Remarks

Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support-R2C	C/FP	EG&G Stafford, VA	0.000	0.978	Nov 2009	0.987	Dec 2010	0.000		0.987	0.000	1.965	Continuing
		Subtotal	0.000	0.978		0.987		0.000		0.987	0.000	1.965	

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2316: *Combat Service Support Eng Equip*

Test and Evaluation ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ABV Test Support	MIPR	Aberdeen Proving Ground Aberdeen, MD	0.000	0.610	Feb 2010	0.000		0.000		0.000	0.000	0.610	Continuing
R2 Test Support	MIPR	Aberdeen Proving Ground Aberdeen, MD	0.000	0.429	Nov 2009	1.914	Nov 2010	0.000		1.914	0.000	2.343	Continuing
CPAC	WR	Naval Surface Warfare Center - Carderock West Bethesda, MD	0.000	2.160	Feb 2010	2.281	Feb 2011	0.000		2.281	0.000	4.441	Continuing
		Subtotal	0.000	3.199		4.195		0.000		4.195	0.000	7.394	

Remarks

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.643	10.263		10.135		0.000		10.135	0.000	25.041	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206624M: *Marine Corps Cmbt Services Supt*	**PROJECT** 2316: *Combat Service Support Eng Equip*

Exhibit R-4/4a Schedule Profile Detail

DATE: February 2010

Appropriation/Budget Activity	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E /BA 7 Operational Sys	0206624M Marine Corps Combat Services Spt	C2316 Combat Services Support Engineering Equip

Fiscal Year
Quarter

Fiscal Year Quarter	08 I II III IV	09 I II III IV	10 I II III IV					
Spiral 1 Integration & DT								
Spiral 1 LRIP								
Spiral 1 LUE								
Spiral 1 IOT&E								
Spiral 1 Production & Fielding Decision								
Spiral 1 IOC/FOC								

Program Funding Summary

(APPN,BLI #, NOMEN)	FY 2009	FY 2010	FY2011	FY2011 OCO	FY2011 Total	FY2012	FY2013	FY2014	FY2015
(U) RDT&E, C2316, CSSEE	0.000	4.892	2.901	0.000	2.901	6.605	3.909	0.000	0.000
(U) PMC, BLI 6520, Route Clearance	0.000	21.758	19.847	29.722	49.569	33.149	34.317	59.635	65.983

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206624M: *Marine Corps Cmbt Services Supt*	**PROJECT** 2316: *Combat Service Support Eng Equip*

UNCLASSIFIED

Exhibit R-4/4a Schedule Profile Detail		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206624M Marine Corps Combat Services Spt	PROJECT NUMBER AND NAME C2316 Combat Services Support Engineering Equip

ASSAULT BREACHER VEHICLE

Program Funding Summary

(APPN, BLI #, NOMEN)	FY 2009	FY 2010	FY 2011
(U) PMC BLI 652000 ABV	25.000	20.691	21.195
(U) PMC SPARES BLI700049 BA-7	0.559	0.000	0.000
(U) RDT&E ABV	0.000	1.522	1.533
(U) OMMC 1A2A ABV	0.000	2.058	2.111

Assault Breacher Vehicle Schedule

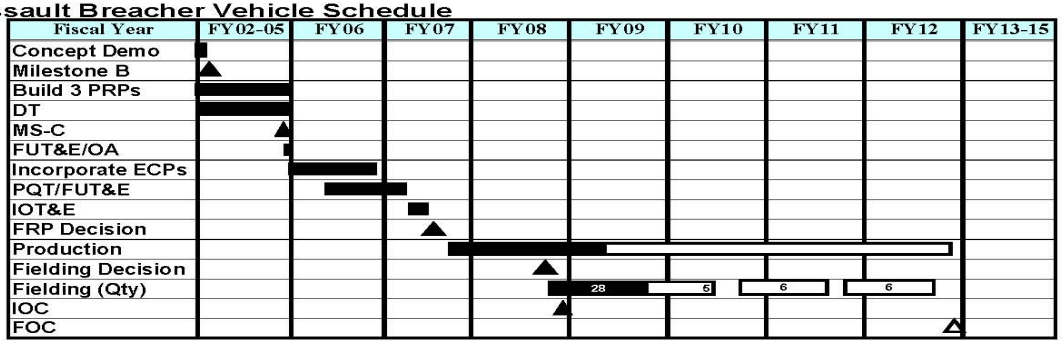

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206624M: *Marine Corps Cmbt Services Supt*	**PROJECT** 2316: *Combat Service Support Eng Equip*

Schedule Details

	Start		End	
Event	**Quarter**	**Year**	**Quarter**	**Year**
Spiral 1 Integration and Developmental Test	1	2010	4	2010
ABV Production	4	2010	4	2011
ABV Upgrade	2	2010	4	2011

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2509: *Motor Transport Mod*	

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
2509: *Motor Transport Mod*	3.233	2.122	4.644	0.000	4.644	0.749	0.961	0.928	1.007	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Marine Corps Tactical Transportation Program manages procurement and life cycle sustainment for more than 40,000 principle end items divided among four fleets: Light Fleet, Medium Fleet, Heavy Fleet, and Special Fleet. A sustained effort is maintained in the Marine Corps for development and testing in support of fleet Service Life Extension Program (SLEP) initiatives, vehicle quality deficiency resolutions, safety initiatives, environmental/state transportation mandated vehicle changes, and system component refresh modifications efforts. Given transportation asset operational availability declines at a steady rate over time, SLEP, Fleet overhauls, and enhanced depot level modifications are essential in maintaining a viable transportation capability in the Marine Corps Operating Forces.
Improved Recovery Vehicle (IRV) project includes improvements in all areas of the M88A2 Improved Recovery Vehicle. Continued funding is required to address obsolescence and support pre-planned product improvements. Additionally, funding will provide development activity by the original equipment manufacturer (OEM) to address lessons learned and develop safety related engineering change proposals (ECPS) to correct hazards noted during the standard day to day operation of the M88A2 Improved Recovery Vehicle.

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
*Improved Recovery Vehicle (IRV)	0.000	0.515	0.451	0.000	0.451
FY 2010 Plans: Continue joint participation with US Army on evaluation of prospective modifications including realibility, survivivability and safety related vehicle improvements. *FY 2011 Base Plans:* Continue joint participation with US Army on evaluation of prospective modifications including realibility, survivivability and safety related vehicle improvements.					
*High Mobility Multi-Wheeled Vehicle ECV (HMMWV-ECV)	0.000	0.320	0.324	0.000	0.324

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2509: *Motor Transport Mod*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Test advanced Armoring Materials for the HMMWV. *FY 2011 Base Plans:* Test advanced Armoring Materials for the HMMWV.					
*FRC: Flatrack *FY 2010 Plans:* Development and Test *FY 2011 Base Plans:* Development and Test	0.000	0.694	3.261	0.000	3.261
*Motor Transport Modification (MTM): Program Management *FY 2009 Accomplishments:* Program management and travel in support of Transportation Systems modifications, COTS/NDI modernizations *FY 2010 Plans:* Program management and travel in support of Transportation Systems modifications, COTS/NDI modernizations *FY 2011 Base Plans:* Program management and travel in support of Transportation Systems modifications, COTS/NDI modernizations	0.101	0.101	0.102	0.000	0.102
*Motor Transport Modification (MTM): Test	3.132	0.492	0.506	0.000	0.506

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206624M: *Marine Corps Cmbt Services Supt*	**PROJECT** 2509: *Motor Transport Mod*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: Testing, integration, evaluation of Transportation Systems modifications *FY 2010 Plans:* Testing, integration, evaluation of Transportation Systems modifications *FY 2011 Base Plans:* Testing, integration, evaluation of Transportation Systems modifications					
Accomplishments/Planned Programs Subtotals	3.233	2.122	4.644	0.000	4.644

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• 523000: *Motor T Mod*	4.131	2.756	2.803	0.000	2.803	2.859	2.928	3.009	3.091	0.000	124.277
• 504500: *HMMWV*	130.978	37.602	4.849	12.994	17.843	0.719	2.510	21.817	48.134	0.000	698.303
• 509300: *FRC*	7.467	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.232
• 509700: *FRC*	0.000	2.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.320
• 206100: *IRV*	0.000	4.191	5.313	12.000	17.313	4.164	46.047	46.870	3.848	0.000	368.833

D. Acquisition Strategy

The MTM program is a sustained program line for "level of effort" programs. Funding will focus on streamlined acquisitions of Commercial-Off-The-Shelf Non-Developmental Items (COTS/NDI) that can be identified, integrated, and tested in a short amount of time. Successful modifications and tests are intended for follow-on procurement and incorporation into existing system component upgrades, SLEPS, or rapid COTS/NDI fielding for the Fleet Marine Forces (FMF).

The HMMWV Program has procured armor in response to the threats faced in OIF and GWOT operations as needed. Since the initial procurement the HMMWV Program Office has aggressively sought out more advanced and effective armor solutions for the warfighter. This program line allows the HMMWV Program to continualy seek the most advanced materials/concepts that would allow the HMMWV Program Office to continuously respond to the evolving threats.

The Flatrack Refueling Capability (FRC) program original acquisition strategy consisted of a joint procurement contract with the US Army. FY07 RDTE funds were used to procured two protoypes developed by DSR Systems Inc. After development and initial testing the Army decided not to procure the DSR system. Our revised

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2509: *Motor Transport Mod*

acquisition strategy will only include US Marine Corps requirements. Further anaylsis has resulted in the new acquistion strategy focused to contract for Commerically available Items via a Small Business Set Aside procurement. These funds will procure one prototype for Developmental Testing and Field Users Evaluation (FUE). After successfully testing, the Marine Corps will procure the approved acquisition objective (AAO) quantity.

The Improved Recovery Vehicle (IRV) program also leverages Army developmental programs to create a system that more readily meets Marine Corps heavy recovery vehicle requirements. Improvements include safety, reliability, and technology upgrades.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2509: *Motor Transport Mod*

Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IMPROVED RECOVERY VEH	C/CPFF	TACOM WARREN, MI	0.000	0.515	Feb 2010	0.451	Dec 2010	0.000		0.451	0.000	0.966	Continuing
FRC	Various/ TBD	TBD TBD	1.000	0.694	Feb 2010	0.000		0.000		0.000	3.304	4.998	Continuing
Live Fire Testing LVS MAK	MIPR	APG MD	0.128	0.000		0.000		0.000		0.000	0.000	0.128	Continuing
MT Armor Testing	Various/ TBD	APG MD	1.753	0.492	Feb 2010	0.506	Nov 2010	0.000		0.506	Continuing	Continuing	Continuing
HMMWV Test	MIPR	NATC NV	1.268	0.320	Feb 2010	0.324	Dec 2010	0.000		0.324	Continuing	Continuing	Continuing
FRC Developmental Testing	Various/ TBD	TBD TBD	0.000	0.000	Feb 2010	3.261	Dec 2010	0.000		3.261	0.000	3.261	Continuing
		Subtotal	4.149	2.021		4.542		0.000		4.542			

Remarks

FY 10 and FY 11 show MT and HMMWV Test To Be Determine (TBD) efforts and cost are determined each year in accordance with the current readiness reports.

Management Services ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management and travel	WR	MCSC VA	0.101	0.101	Jan 2010	0.102	Dec 2010	0.000		0.102	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2509: *Motor Transport Mod*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010 Cost	FY 2010 Award Date	FY 2011 Base Cost	FY 2011 Base Award Date	FY 2011 OCO Cost	FY 2011 OCO Award Date	FY 2011 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.101	0.101		0.102		0.000		0.102			

Remarks

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.250	2.122		4.644		0.000		4.644			

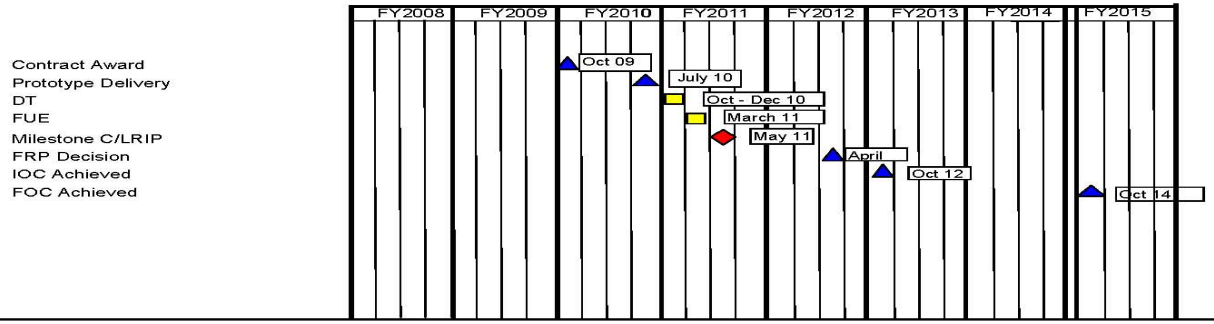
Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2011 Navy		**DATE:** February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206624M: *Marine Corps Cmbt Services Supt*	**PROJECT** 2509: *Motor Transport Mod*

Exhibit R-4-4a Project Schedule/Detail — Date: September 2009

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C2509 Motor Transporation Modification (MTM)

Flatrack Refueling Capability



Program Funding Summary (APPN, BLI #, (Flatrack))	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
(U) RDT&E,N PE 0206624M C0201	0.649	0.000	0.000	0.000	0.000	0.000	0.000
(U) RDT&E,N PE 0206624M C2509	0.000	0.696	0.000	0.000	0.000	0.000	0.000
(U) PMC Line (BLI# 509300) FRC	7.468	0.000	0.000	0.000	0.000	0.000	0.000
(U) PMC Line (BLI# 509700) FRC	0.000	2.320	0.000	0.000	0.000	0.000	0.000

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206624M: *Marine Corps Cmbt Services Supt*	**PROJECT** 2509: *Motor Transport Mod*

Exhibit R-4-4a Project Schedule/Detail — Date: September 2009

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C2509 Motor Transporation Modification (MTM)

Flatrack Refueling Capability

FRC SCHEDULE DETAIL	FY 2008	FY 2009	FY 2010	FY 2011	FY2012	FY2013	FY2014	FY2015
Milestone B								
Contract Award			1Q					
Prototype Delivery			4Q					
DT				1Q				
FUE				2Q				
Milestone C/LRIP				3Q				
FRP Decision					3Q			
IOC Achieved						1Q		
FOC Achieved								1Q

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Exhibit R-4/4a
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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2929: *Testing Measuring Diag Equip & SE*	

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
2929: *Testing Measuring Diag Equip & SE*	3.972	1.488	1.528	0.000	1.528	1.567	1.608	1.646	1.679	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Marine Corps Family of Automatic Test Systems (ATS) formerly called Third Echelon Test Sets (TETS), provides automatic test program capability for use by technicians both in Garrison and the forward edge of the battlefield; specifically in the areas of interactive electronic technical manuals, condition/predicitive based maintenance, and embedded sensors and prognostics.

The Marine Corps Automatic Test Equipment (MCATE) program provides development of sustainment technology for automatic test equipment used in organizational/ intermediate maintenance facilities.

The Autonomic Logistics (AL) program provides weapon system sensor data collection and processing for information conversion to provide situational awareness. FY11 efforts will focus on milestone A activities for Autonomic Logistics Services.

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
*Marine Corps Automated Test Equipment	0.494	1.238	1.282	0.000	1.282
Overall thrust of this program is to develop advanced technology concepts for automatic test and integrate these subsystems and components into system prototypes for field experiments and/or tests in a simulated environment. The focus is on demonstrating the military utility of technologies and applying them to our ATS acquisition programs. A primary secondary thrust is to prevent obsolescence in our current automatic test systems by identifying new technologies that can be implemented immediately.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2929: *Testing Measuring Diag Equip & SE*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: Two major studies looked at EO and parallel testing. One study determined the appropriate size of a common streamlined Electro-Optical (EO) Automatic Test System (ATS) solution with an appropriate blackbody size to accurately test current and future Marine Corps optical systems. The other evaluated the specifications for a synthetic analog test instrument that could reduce test assets, decrease tester footprint, and increase test performance. A capability study was performed for our next generation ATS and defined the alternatives available for a new tester. Consolidated the test requirements for new systems such as the CROWS and our ability to test this weapon platform. Researched different testing techniques such as model based programming and damage characterization of components to improve USMC weapon system sustainability. *FY 2010 Plans:* Will perform further analysis and research on the requirements for a new full capability automatic test system as well as a downsized, specified capability EO tester. Begin initiatives planned for research of new testing techniques, laser safety and system automatic test. *FY 2011 Base Plans:* Plan future analysis and research on the requirements for a new full capability automatic test system as well as a downsized, specified capability EO tester. Continue initiatives planned for research of new testing techniques, laser safety and system automatic test.					
*Automatic Test Systems Overall thrust of this program is to develop advanced technology concepts for automatic test and integrate these subsystems and components into system prototypes for field experiments and/or tests in a simulated environment. The focus is on demonstrating the military utility of technologies and applying them to our ATS acquisition programs. A primary secondary thrust is to prevent obsolescence	1.081	0.000	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2929: *Testing Measuring Diag Equip & SE*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
in our current automatic test systems by identifying new technologies that can be implemented immediately. *FY 2009 Accomplishments:* Two major studies looked at EO and parallel testing. One study determined the appropriate size of a common streamlined Electro-Optical (EO) Automatic Test System (ATS) solution with an appropriate blackbody size to accurately test current and future Marine Corps optical systems. A study that evaluated the specifications for a synthetic analog test instrument that could reduce test assets, decrease tester footprint, and increase test performance. A capability study was completed for our next generation ATS and defined the alternatives available for a new tester. The test requirements were studied for new systems such as the CROWS and our ability to test this weapon platform. Different testing techniques were studied such as model based programming and damage characterization of components to improve USMC weapon system sustainability.					
*Autonomic Logistics *FY 2009 Accomplishments:* FY09 focused on LCCE support, a modeling & simulation effort to analyze system & communication architecture in support of EPLS, and to provide engineering, programmatic, science & technology services in support of Autonomic Logistics. *FY 2010 Plans:* FY10 plans are to focus on an economic analysis to address additional study recommendations from the Autonomic Logistics Marine Corps Analysis of Alternatives (AoA) to support milestone A activities for Autonomic Logistics Service Program (AL).	2.397	0.250	0.246	0.000	0.246

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2929: *Testing Measuring Diag Equip & SE*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY11 efforts will focus on milestone A activities in support of Autonomic Logistics Services (AL).					
Accomplishments/Planned Programs Subtotals	3.972	1.488	1.528	0.000	1.528

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PMC/41811: *Calibration*	2.132	9.841	9.918	0.000	9.918	2.176	2.228	2.288	2.350	0.000	57.580
• PMC/41812: *TETS*	11.365	1.324	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	130.564
• PMC/41813: *Autonomic Logistics*	9.852	4.552	1.019	0.000	1.019	1.093	3.270	3.409	3.548	0.000	140.443

D. Acquisition Strategy

Automatic Test Systems (ATS) and Marine Corps Automatic Test Equipment (MCATE) program's work is being done through Marine Corps Systems Command (MCSC) contracts and in-house at Marine Corps Logistics Base (MCLB), Albany, GA, Naval Surface Warfare Center (NSWC), Corona and Seal Beach, CA.

Autonomic Logistics (AL) is Competitive through Marine Corps Systems Command Contracts. All other work is being done in house and at Government Engineering facilities.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2929: *Testing Measuring Diag Equip & SE*

Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Study & Hardware (MCATE) 1	C/FFP	MCSC Quantico, VA	0.000	0.240	Feb 2010	0.000		0.000		0.000	0.000	0.240	Continuing
Study & Hardware (MCATE) 2	C/FFP	MCSC Quantico, VA	0.000	0.218	Mar 2010	1.007	Dec 2010	0.000		1.007	0.000	1.225	Continuing
Study & Hardware (MCATE) 3	C/TBD	NAVAIR Lakehurst, NJ	0.000	0.189	Mar 2010	0.000		0.000		0.000	0.000	0.189	Continuing
		Subtotal	0.000	0.647		1.007		0.000		1.007	0.000	1.654	

Remarks

Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support (ALS)	C/FFP	MCSC Quantico, VA	3.341	0.250	Feb 2010	0.246	Feb 2011	0.000		0.246	0.000	3.837	Continuing
Program Support (MCATE)	C/FFP	MCSC Quantico, VA	0.000	0.411	Dec 2009	0.000		0.000		0.000	0.000	0.411	Continuing
Engineering Support (MCATE)	WR	MCLB Albany, GA	1.853	0.180	Nov 2009	0.275	Nov 2010	0.000		0.275	0.000	2.308	Continuing
		Subtotal	5.194	0.841		0.521		0.000		0.521	0.000	6.556	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 2929: *Testing Measuring Diag Equip & SE*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010 Cost	FY 2010 Award Date	FY 2011 Base Cost	FY 2011 Base Award Date	FY 2011 OCO Cost	FY 2011 OCO Award Date	FY 2011 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

ALS FY10 & FY11 funds will focus on milestone A activities for the Autonomic Logistics Service (ALS) Program.

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.194	1.488		1.528		0.000		1.528	0.000	8.210	

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9999: *Congressional Adds*	

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9999: *Congressional Adds*	0.000	3.505	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.251
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

High Performance Capabilities for Military Vehicles Project; Marine Personnel Carrier Support System

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010
Congressional Add: High Performance Capabilities for Military Vehicles Project *FY 2010 Plans:* (C10C190) High Performance Capabilities for Military Vehicles Project. Currently coordinating to ascertain congressional intent and direction.	0.000	1.115
Congressional Add: Marine Personnel Carrier Support System *FY 2010 Plans:* (C10C191) Marine Personnel Carrier Support System. Currently coordinating to ascertain congressional intent and direction.	0.000	2.390
Congressional Adds Subtotals	0.000	3.505

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9999: *Congressional Adds*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9C90: *MTVR Mod*	

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9C90: *MTVR Mod*	0.000	1.619	1.672	0.000	1.672	1.730	1.771	1.830	1.889	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The MTVR Modication program line funds numerous and very 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, maintainability and readiness. A proactive and focused approach ensures proper vehicle sustainment and life-cycle management and it allows the program office the flexibility to develop and implement improvements as need to respond to the evolving needs of the Marine Corps

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Medium Tactical Vehicle Replacement (MTVR): ECP	0.000	0.410	0.422	0.000	0.422
FY 2010 Plans: Live Fire Testing and Evaluations *FY 2011 Base Plans:* Transportability test and ECP development					
Medium Tactical Vehicle Replacement (MTVR): Safety	0.000	0.215	0.221	0.000	0.221
FY 2010 Plans: ECP development and Testing *FY 2011 Base Plans:* ECP development and Testing					
Medium Tactical Vehicle Replacement (MTVR): Upgrade	0.000	0.409	0.428	0.000	0.428

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9C90: *MTVR Mod*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: ECP development and Testing *FY 2011 Base Plans:* ECP development and Testing					
Medium Tactical Vehicle Replacement (MTVR): Obsolesence *FY 2010 Plans:* ECP development and Testing *FY 2011 Base Plans:* ECP development and Testing	0.000	0.370	0.380	0.000	0.380
Medium Tactical Vehicle Replacement (MTVR): Quality *FY 2010 Plans:* ECP development and Testing *FY 2011 Base Plans:* ECP development and Testing	0.000	0.215	0.221	0.000	0.221
Accomplishments/Planned Programs Subtotals	0.000	1.619	1.672	0.000	1.672

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9C90: *MTVR Mod*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• BLI 5050: *MTVR Modifications*	0.000	2.991	5.253	0.000	5.253	6.414	6.584	6.764	6.949	0.000	34.955

D. Acquisition Strategy

The strategy for the MTVR Modification initiative is to be proactive in our approach. This will aid in the prevention of parts obsolescence, potential safety concerns, and support the needs of the Marine Corps. A proactive and focused approach ensures proper vehicle sustainment and life-cyle management and it allows the program office the flexibility to develop and implement improvements as required to respond to evolving needs. The anticipated life of the MTVR was partially based on the vehicle being at curb weight a large percentage of its life time. Due to the addition of the MTVR Armor System, various other components and the current high optempo, it is anticipated that the MTVR life expectancy will be lessened. It is important to ensure MTVR sustainment in any and all circumstances and this Modification line supports this effort.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9C90: *MTVR Mod*

Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ECPs	Various/ Various	Oshkosh Corporation, WI	0.000	0.410		0.422		0.000		0.422	0.000	0.832	Continuing
Engines/Part Obsolescence	Various/ Various	Oshkosh Corporation, WI	0.000	0.370		0.380		0.000		0.380	0.000	0.750	Continuing
Product Quality Deficiencies	Various/ Various	Oshkosh Corporation, WI	0.000	0.215		0.221		0.000		0.221	0.000	0.436	Continuing
Safety Initiatives	Various/ Various	Oshkosh Corporation WI	0.000	0.215		0.221		0.000		0.221	0.000	0.436	Continuing
		Subtotal	0.000	1.210		1.244		0.000		1.244	0.000	2.454	

Remarks

Funding vehicle for the above are RCP's which is not available in the drop down.

Test and Evaluation ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Component Upgrade, Prototype Testing	Various/ Various	NATC NV	0.000	0.409		0.428		0.000		0.428	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206624M: *Marine Corps Cmbt Services Supt*	PROJECT 9C90: *MTVR Mod*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010 Cost	FY 2010 Award Date	FY 2011 Base Cost	FY 2011 Base Award Date	FY 2011 OCO Cost	FY 2011 OCO Award Date	FY 2011 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.409		0.428		0.000		0.428			

Remarks

Funding vehicle for the above is an RCP which is not available in the drop down.

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	1.619		1.672		0.000		1.672			

Remarks