

CLASSIFICATION:**UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification

DATE:

February 2007APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA-7 Operational Sys DevPROGRAM ELEMENT (PE) NAME AND NO.
0206624M Marine Corps Combat Services Support

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	17.182	17.456	12.946	7.264	3.396	2.758	2.831	2.909
C0076 Medium Tactical Vehicle Replacement (MTVR)	0.904	0.0	0.0	0.0	0.0	0.0	0.0	0.0
* C0201 Logistical Vehicle System Replacement (LVSR)	2.396	7.622	5.058	4.152	0.706	0.000	0.000	0.000
C2316 Combat Service Support Engineering Equipment	3.973	2.020	3.555	0.544	0.556	0.567	0.578	0.594
C2509 Motor Transport Modernization	0.346	0.558	0.584	0.600	0.613	0.625	0.645	0.663
C2929 Testing Measuring Diagnostic Equip (TMDE) & SE	3.817	7.256	3.749	1.968	1.521	1.566	1.608	1.652
C9999 - Congressional Adds	5.746	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Quantity of RDT&E Articles								

(U) 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 transport

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 device

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PROGRAM ELEMENT (PE) NAME AND NO.
0206624M Marine Corps Combat Services Support

B. PROGRAM CHANGE SUMMARY

	FY2006	FY2007	FY2008	FY2009
(U) FY 2007 President's Budget:	16.318	17.524	13.106	4.003
(U) Adjustments from the President's Budget:				
(U) Congressional Reductions	-0.056			
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	1.308		-0.242	3.200
(U) SBIR/STTR Transfer	-0.366			
(U) Minor Affordability Adjustment	-0.022	-0.068	0.082	0.061
(U) FY 2008 NAVCOMPT Budget:	17.182	17.456	12.946	7.264

CHANGE SUMMARY EXPLANATION:

- (U) Funding: See Above.
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev		0206624M Marine Corps Combat Services Support			C0201 Logistical Vehicle Sys Replacement (LVSR)				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost		2.396	7.622	5.058	4.152	0.706	0.000	0.000	0.000
RDT&E Articles Qty		1	3						
(U) 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 5th Wheel and Wrecker variants which will be 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.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.500	3.095	0.000	0.000				
RDT&E Articles Qty									
LVSR: Test and Evaluation.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.098	0.429	0.443	1.000				
RDT&E Articles Qty									
LVSR: Engineering/Program Management									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		1.604	0.000	0.000	0.000				
RDT&E Articles Qty		1							
LVSR: Procure Prototypes. (FY06/07 RDT&E Articles Qty's are 5th Wheel and Wrecker Variants)									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.194	0.659	1.200	1.200				
RDT&E Articles Qty									
LVSR: Engineering Support.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.000	2.046	1.202	1.252				
RDT&E Articles Qty									
LVSR: Operational Test and Evaluation.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.000	1.393	0.900	0.000				
RDT&E Articles Qty			3						
FRC: Prototype Development.									

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EXHIBIT R-2a, RDT&E Project Justification			DATE:							
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev			PROGRAM ELEMENT NUMBER AND NAME 0206624M Marine Corps Combat Services Support							
PROJECT NUMBER AND NAME C0201 Logistical Vehicle Sys Replacement (LVSR)			DATE: February 2007							
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009						
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.313	0.700						
RDT&E Articles Qty										
FRC: Developmental Test and Evaluation										
(U) Total \$	2.396	7.622	5.058	4.152						
(U) PROJECT CHANGE SUMMARY:										
	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>						
(U) FY 2007 President's Budget:	1.446	7.652	1.115	0.920						
(U) Adjustments from the President's Budget:										
(U) Congressional Adds										
(U) Reprogrammings	0.985		3.908	3.200						
(U) SBIR/STTR Transfer										
(U) Minor Affordability Adjustments	-0.035	-0.030	0.035	0.032						
(U) FY 2008 President's Budget:	2.396	7.622	5.058	4.152						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: Funding changes in FY06 represent reimbursement of \$1015K to LVSR from various MC programs for funds provided in FY05 to support MC shortfalls. Funding changes in FY08 and FY09 are a result of the FY08 POM to Budget Adjustments										
(U) Schedule:										
(U) Technical:										
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC Line (BLI# 509300) FlatRack	0.000	7.151	0.016	12.137	21.927	13.271	0.000	0.00	Cont	Cont
(U) PMC Line (BLI# 509300) LVSR	31.615	39.780	26.747	219.025	180.467	162.159	120.542	59.146	Cont	Cont
(U) Related RDT&E:										
(U) PE 0206623M Marine Corps Ground Combat Supporting Arms Systems										
(U) PE 0603640M Marine Corps Advanced Technology Demonstration										
(U) PE 0604804A Logistics and Engineering Equip/Engr Development										
(U) PE 0206313M Marine Corps Communications										

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206624M Marine Corps Combat Services Support	PROJECT NUMBER AND NAME C0201 Logistical Vehicle Sys Replacement (LVSR)
(U) D. ACQUISITION STRATEGY: The Logistics Vehicle System Replacement (LVSR) program will consist of two separate phases. During the first phase, the System Development and Demonstration (SD&D) phase, up to two contracts will be awarded to procure prototypes for developmental testing. The winner of the SD&D phase will be awarded a production contract to produce Low Rate Initial Production (LRIP) vehicles for operational testing. The other two LVSR variants, the 5th Wheel and Wrecker variants will be designed, built and tested under the LVSR cargo production contract. (U) D. ACQUISITION STRATEGY: The Flatrack Refueling Capability (FRC) program will consist of two separate phases. During the first phase, the System Development and Demonstration (SD&D) phase, one contract will be awarded to procure prototypes for developmental testing. The winner of the SD&D phase will be awarded a production contract to produce LRIP vehicles for operational testing. (U) E. MAJOR PERFORMERS: Mar '04 American Truck Corp 3 Vehicle Prototypes Mar '04 Oshkosh Truck Corp 3 Vehicle Prototypes		

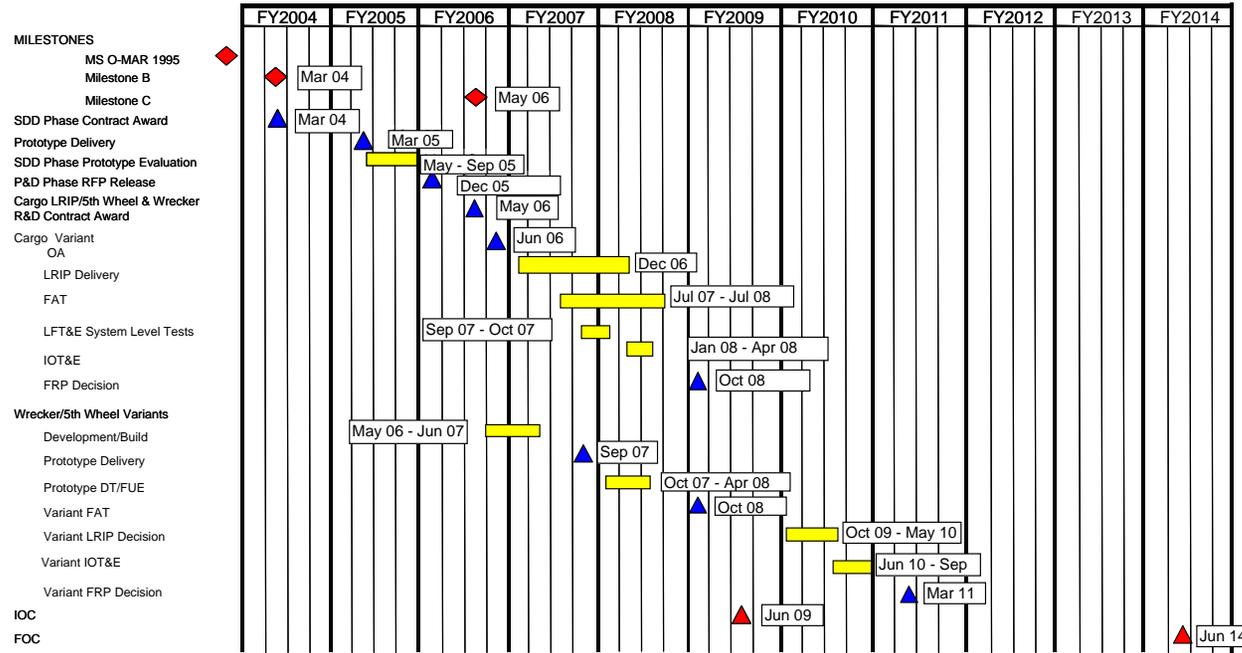
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Exhibit R-3 Cost Analysis										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206624M Marine Corps Combat Services Spt					C0201 Logistical Vehicle System Replacement (LVSr)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
LVSr Variant Prototypes	RCP	MCSC Quantico, VA	15.131	1.596	05/06	0.000		0.000		0.000		0.000		16.727
LVSr Source Selection	RCP	MCSC Quantico, VA	0.240	0.008	12/05	0.000		0.000						0.248
FRC Prototypes	RCP	TDB	0.000	0.000		1.393	01/07	0.900	11/07	0.000		0.000		2.293
Subtotal Product Dev			15.371	1.604		1.393		0.900		0.000		0.000		19.268
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
LVSr Development Design & Test	MIPR	OshKosh, WI	0.000			2.754	12/06	0.000		0.000		0.000		2.754
LVSr Variant Test	MIPR	TACOM, Warren, MI	0.000	0.110	06/06	0.000		0.000		0.000		0.000		0.110
LVSr Corrosion Test	WR	NSWC Philadelphia	0.052	0.040	04/06	0.000		0.000		0.000		0.000		0.092
LVSr Development Test	MIPR	Aberdeen Test Center	2.727	0.000		0.341	12/06	0.000		0.000		0.000		3.068
FRC Modeling and Simulation	RCP	NSWC, Carderock, MD	0.205	0.000		0.000		0.000		0.000		0.000		0.205
FRC Developmental T&E	TBD	TBD	0.000	0.000		0.000		1.313	12/07	0.000		0.000		1.313
Subtotal Developmental Cost			2.984	0.150		3.095		1.313		0.000		0.000		7.542
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
LVSr Engineer & Tech Support	WR	NTSC, Orlando, FL		0.194	04/06	0.000		0.000		0.000		0.000		0.194
LVSr Engineer & Tech Support	RCP	MCSC Quantico, VA		0.000		0.629	12/06	1.200	12/07	1.200	12/08	0.000		3.029
Subtotal Engineer & Tech Support			0.000	0.194		0.629		1.200		1.200		0.000		3.223
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
LVSr Operational T&E	WR	MCOTEA	0.000	0.350	05/06	1.300	02/07	1.202	12/07	1.220	12/08	0.000		4.072
LVSr Operational Assessment	TBD	TBD	0.000			0.746	11/06					0.000		0.746
FRC Operational Analysis	TBD	MCOTEA	0.000							0.700	12/08	0.000		0.700
Subtotal Operational Support			0.000	0.350		2.046		1.202		1.920		0.000		5.518
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
LVSr Contractor Suppt	RCP	Sverdrup, Dumfries, VA	4.079	0.000		0.400	12/06	0.243	12/07	0.800	12/08	0.000		5.522
LVSr Prgrm Mgmt Spt	WR	MCSC Quantico, VA	0.685	0.098	10/05	0.059	12/06	0.200	12/07	0.232	12/08	0.000		1.274
Subtotal Management			4.764	0.098		0.459		0.443		1.032		0.000		6.796
Remarks:														
Total Cost			23.119	2.396		7.622		5.058		4.152		0.000		42.347

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDTE, N /BA 7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C0201 Logistical Vehicle System Replacement (LVSr)

Logistical Vehicle System Replacement



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) **RDTE, N (C0201 LVSr)**

(U) PMC Line (BLI# 509300) LVSr

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Total Cost
(U) RDTE, N (C0201 LVSr)	0.834	6.229	2.845	3.452	0.000	0.000	0.000	0.000	13.360
(U) PMC Line (BLI# 509300) LVSr	31.615	39.780	26.747	219.025	180.467	162.159	120.542	59.146	839.481

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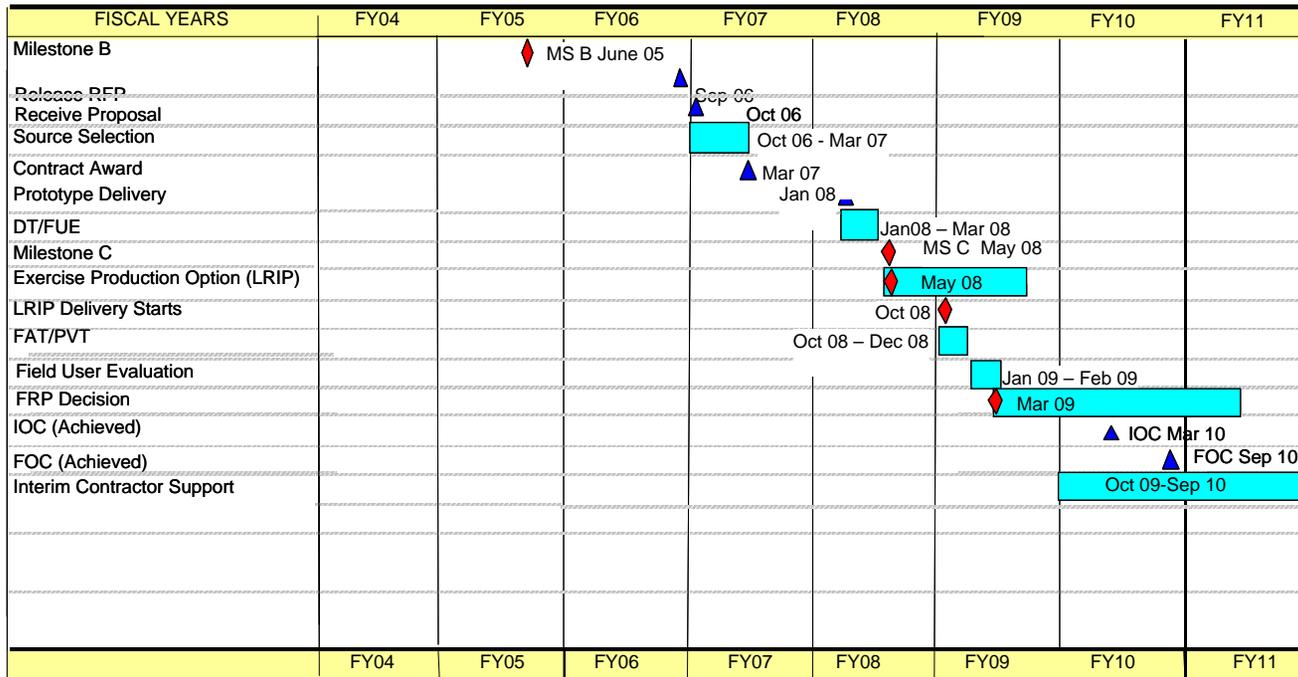
Exhibit R-4-4a Project Schedule/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C0201 Logistical Vehicle System Replacement (LVSr)

LVSr SCHEDULE DETAIL		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY2012	FY2013	FY2014
Release RFP										
Source Selection										
Contract Award										
Cargo Prototype Delivery										
Operational Assessment		4Q								
DT/OA										
Cargo Variant										
Milestone C		3Q								
LRIP Delivery			2Q							
FAT			3Q	1Q						
IOT&E				1Q						
FRP Decision					1Q					
5th Wheel/Wrecker Variants										
Prototype Delivery			3Q							
DT/OA				1Q						
LRIP Delivery					4Q					
FAT						1Q				
FRP Decision							2Q			
IOC					3Q					
FOC										3Q

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C0201 Logistical Vehicle System Replacement (LVSr)

Flatrack Refueling Capability FRC



<u>Program Funding Summary</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>								
(U) RDT&E,N (Flatrack)	1.562	1.393	2.213	0.700	0.706	0.000	0.000	6.574
(U) PMC Line (BLI# 509300) FlatRack	0.000	7.151	0.016	12.137	21.927	13.271	0.000	54.502

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt	C0201 Logistical Vehicle System Replacement (LVSr)

FLATRACK SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone B						
Release RFP	4Q					
Source Selection		1Q-2Q				
Contract Award		2Q				
Prototype Delivery			2Q			
DT/FUE			2Q			
Milestone C			3Q			
LRIP Delivery				1Q		
FAT				1Q		
FUE				2Q		
FRP Decision				2Q		
IOC Achieved					2Q	
FOC Achieved						4Q
Interim contractor Support					1Q-4Q	1Q-4Q

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY	PROJECT NUMBER AND NAME								
RDT&E, N /BA-7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt				C2316 Combat Services Support Engineering Equipment				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project Cost	3.973	2.020	3.555	0.544	0.556	0.567	0.578	0.594	
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>A. This project includes improvements in all areas of Combat Service Support Engineering Equipment. This will sustain the technological currency of the M1A1 Main Battle Tank and the M88A2 Recovery Vehicle while concurrently addressing equipment deficiencies, obsolesced components, and/or opportunities to reduce total ownership costs. The program includes joint evaluations and development of modifications, component enhancements and advanced subsystems involving automotive, fire control, survivability and combat identification. The Joint Assault Bridge (JAB), formerly Expeditionary Assault Bridge (EAB) is a tracked engineer vehicle that provides the Marine Air Ground Task Force (MAGTF) with a survivable, deployable and sustainable 18.3 meter wet/dry gap crossing capability. The JAB is comprised of an M1A1 chassis, a modified BR90 bridge launcher, an Embedded Diagnostics System, and Cameras to aid crew visibility. The JAB will provide crew protection and vehicle survivability while having the speed and mobility to keep pace with the maneuver force.</p>									
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:									
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost	1.212	0.528	0.535	0.544					
RDT&E Articles Qty									
<p>M1A1 Armor Mods: Continue joint participation and evaluation of prospective modifications including component enhancements, advanced fire control systems, survivability systems, Combat Identification, mobility and others.</p>									
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost	1.939	0.742	0.000	0.000					
RDT&E Articles Qty									
<p>Joint Assault Bridge (JAB): Begin system integration with M1A1 tank chassis, BR90 bridge launcher, and MLC70 assault bridge to build first article JAB demonstrator. 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 modified BR90 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 vehicle will provide the survivability, maintainability, and maneuverability required to keep pace with the maneuver force.</p>									
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost	0.460	0.500	0.520	0.000					
RDT&E Articles Qty									
<p>JAB: Program management and engineering support.</p>									
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost	0.362	0.250	2.500	0.000					
RDT&E Articles Qty									
<p>JAB: Conduct and conclude Developmental Testing, Operational Test and evaluation.</p>									
(U) Total \$	3.973	2.020	3.555	0.544					

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EXHIBIT R-2a, RDT&E Project Justification

DATE: **February 2007**

APPROPRIATION/BUDGET ACTIVITY

RDT&E, N/BA-7 Operational Sys Dev

0206624M Marine Corps Combat Services Spt

PROJECT NUMBER AND NAME

C2316 Combat Services Support Engineering Equipment

(U) PROJECT CHANGE SUMMARY:

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) FY 2007 President's Budget:	3.376	2.028	0.532	0.539
(U) Adjustments from the President's Budget:				
(U) Congressional Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases	0.002			
(U) Reprogrammings	0.649		3.000	
(U) SBIR/STTR Transfer	-0.055			
(U) Minor Affordability Adjustments	0.001	-0.008	0.023	0.005
(U) FY 2008 President's Budget:	3.973	2.020	3.555	0.544

CHANGE SUMMARY EXPLANATION:

- (U) Funding: See above.
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC Line (BLI# 652000)EOD Sys- ABV	63.637	6.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	70.525
(U) PMC Line (BLI# 651800) Amphib SE- JAB	0.000	2.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.012
(U) PMC Line (BLI# 652000) EOD Sys- JAB	0.000	0.000	0.000	8.054	8.656	2.673	2.747	2.824	Cont	Cont
(U) PMC (BLI#206100) Mod Kits (M1A1 Mod Kits)	3.731	2.734	2.818	2.820	6.041	4.485	5.594	4.718	Cont	Cont
(U) PMC (BLI#206100) Recovery Veh, Ft, Heavy	4.760	6.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.781
(U) PMC (BLI#206100) Safety Mods (M1A1)	22.415	3.571	1.611	1.658	1.729	1.759	1.801	1.851	Cont	Cont
(U) PMC (BLI#209500) M1A1 FEP (M1A1)	31.517	19.003	14.716	14.706	0.000	0.000	0.000	0.000	0.000	79.942

(U) Related RDT&E:

- (U) PE 0206623M Marine Corps Ground Combat Supporting Arms Systems
- (U) PE 0603640M Marine Corps Advanced Technology Demonstration
- (U) PE 0604804A Logistics and Engineering Equip/Engr Development
- (U) PE 0206313M Marine Corps Communications

(U) D. ACQUISITION STRATEGY:

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

(U) **Joint Assault Bridge (JAB):** Begin system integration with M1A1 tank chassis, BR90 bridge launcher, and MLC70 assault bridge to build first article JAB demonstrator. 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 modified BR90 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.

(U) E. MAJOR PERFORMERS:

- JAB - Anniston Army Depot, Anniston, Alabama
- JAB - BAE Land Systems, New Castle, United Kingdom

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Exhibit R-3 Cost Analysis								DATE: February 2007						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206624M Marine Corps Combat Services Spt					C2316 Combat Services Support Engineering Equip						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Systems Engineering -JAB	WR	Various	0.000	1.939	1Q/06	0.742	1Q/07					0.000	2.681	
PROD DEV - M1A1 Mods	RCP	Various	0.609	0.622	1Q/06	0.353	1Q/07	0.308	1Q/08	0.316	1Q/09	Cont	Cont	
Subtotal Product Dev			0.609	2.561		1.095		0.308		0.316		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Program Support - JAB	RCP	BAE, Stafford, VA	0.000	0.460	1Q/06	0.500	1Q/07	0.500	1Q/08			0.000	1.460	
Program Supp-M1A1 Mods	WR	MCSC, Quantico, VA	0.350	0.591	1Q/06	0.175	1Q/07	0.227	1Q/08	0.228	1Q/09	Cont	Cont	
Subtotal Support			0.350	1.051		0.675		0.727		0.228		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
JAB	MIPR	Aberdeen Prvg Grnd, MD	0.000	0.362	1Q/06	0.250	1Q/07	1.000	1Q/08			0.000	1.612	
JAB - OT Support		MCOTEA, Quantico VA						1.000	2Q/08			0.000	1.000	
JAB Test Support		Various						0.520	1Q/08			0.000	0.520	
Subtotal T&E			0.000	0.362		0.250		2.520		0.000		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Subtotal Management			0.000	0.000		0.000		0.000		0.000		Cont	Cont	
Remarks:														
Total Cost			0.959	3.973		2.020		3.555		0.544		Cont	Cont	

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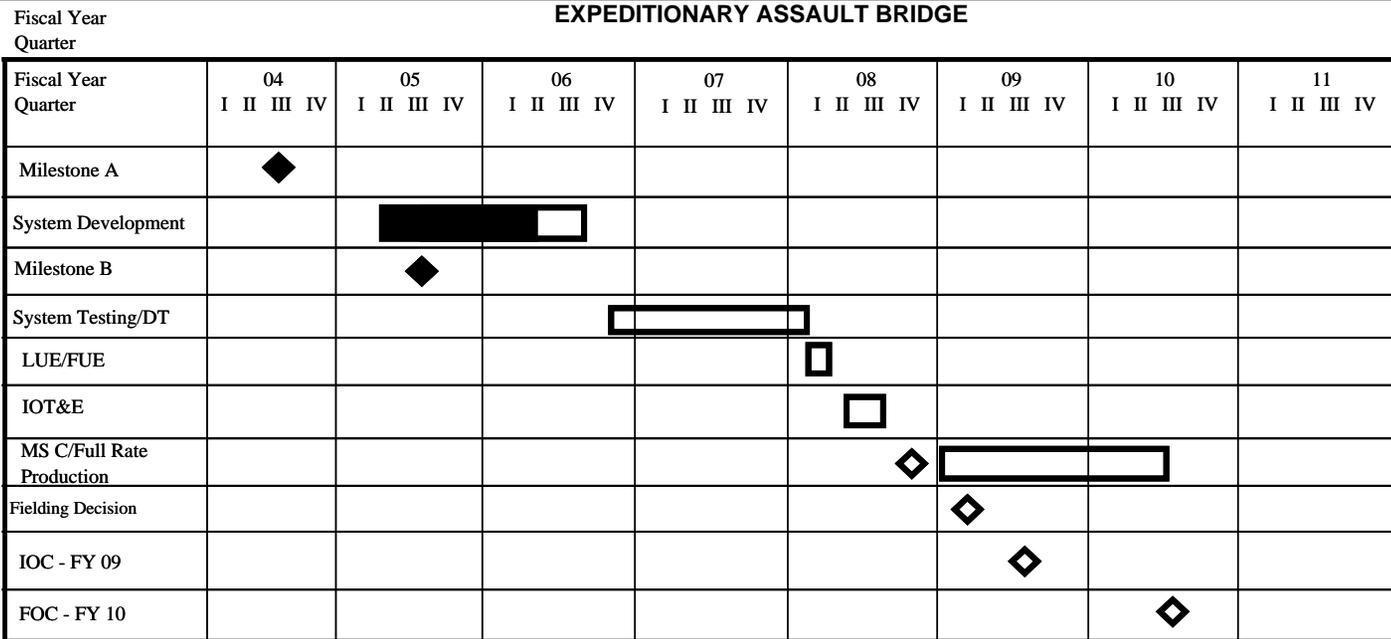
Exhibit R-4/4a Schedule Profile Detail

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT
RDT&E, N /BA 7 Operational Sys 0206624M Marine Corps Combat Services Spt

PROJECT NUMBER AND NAME
G2316 Combat Services Support Engineering Equip



Program Funding Summary

(APPN, BLI #, NOMEN)

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N EAB	2.842	1.492	3.020	0.000	0.000	0.000	0.000	0.000	0.000	7.354
(U) PMC BLI 651800 Amph Supt Eq JAB	0.000	2.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.012
(U) PMC BLI 652000 EOD Sys JAB	0.000	0.000	0.000	8.054	8.656	2.673	2.747	2.824	Cont	Cont

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Exhibit R-4/4a Schedule Profile Detail

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APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT

PROJECT NUMBER AND NAME

RDT&E, N /BA 7 Operational Sys 0206624M Marine Corps Combat Services Spt

G2316 Combat Services Support Engineering Equip

JAB SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone A								
System Development								
Milestone B								
System Testing/DT	3rd Qtr							
Limited User Evaluation/Field User Evaluation			1st Qtr					
IOT&E			2nd Qtr					
Milestone C			4th Qtr					
Fielding Decision/Full Rate Production				1st Qtr				
IOC				3rd Qtr				
FOC					3rd Qtr			

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EXHIBIT R-2a, RDT&E Project Justification

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT NUMBER AND NAME 0206624M Marine Corps Combat Services Spt	PROJECT NUMBER AND NAME C2929 Testing Measuring Diagnostic Equip (TMDE) & SE						
COST (\$ in millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	3.817	7.256	3.749	1.968	1.521	1.566	1.608	1.652
RDT&E Articles Qty								

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Alternative Power Sources for Communications Equipment (APSCE) program is a suite of devices that provides the commander with the capability to use existing power to operate communication equipment, computers and peripheral equipment instead of using batteries or fossil fuel generators.

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 area of interactive electronic tech manuals, condition/predictive based maintenance, 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 Logisitics (AL) program provides weapon system sensor data collection and processing for information conversion to provide situational awareness. FY-06 effort will focus on developing system, operational, and technical architectures for condition based maintenance for Marine Corps Ground Weapon Systems. FY-07 efforts will develop Low Rate Initial Production (LRIP) system health hardware and software for Marine Corps weapon systems.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM

During FY-06 the AL program will conduct R&D efforts to explore collection & processing of system health data from weapon systems sensor and digital data buss structures for system health information. Work will include diagnostic and prognostic algorithm development. FY-07 R&D efforts will focus on system health application for legacy weapon systems that are not supported with digital sensors or data buss structures. Conduct developmental test and evaluation of platform level system health hardware and software.

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.074	0.137	0.000	0.000
RDT&E Articles Qty				

APSCE: Research, evaluation, test and selection of alternative power source products for the APSCE suite of equipment.

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.447	0.570	0.655	0.537
RDT&E Articles Qty				

ATS: Development of new technology testing applications in support of emerging weapon systems.

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.787	0.522	0.679	1.178
RDT&E Articles Qty				

MCATE: Develop new technology for sustainment of current Marine Corps Automatic Test Equipment.

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.509	6.027	2.415	0.253
RDT&E Articles Qty				

ALS: Weapon sensor data collection & processing for information conversion to provide situational awareness.

(U) Total \$	3.817	7.256	3.749	1.968
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EXHIBIT R-2a, RDT&E Project Justification

DATE:

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA 7 Operational Systems Development	0206624M Marine Corps Combat Services Spt				C2929 Testing Measuring Diagnostic Equip (TMDE) & SE					
	FY2006	FY2007	FY2008	FY2009						
(U) FY 2007 President's Budget:	4.267	7.284	10.878	1.950						
(U) Adjustments from the President's Budget:										
(U) Congressional Reductions										
(U) Congressional Rescissions										
(U) Congressional Increases	0.002									
(U) Reprogrammings	-0.373		-7.150							
(U) SBIR/STTR Transfer	-0.080									
(U) Minor Affordability Adjustment	0.001	-0.028	0.021	0.018						
(U) FY 2008 President's Budget:	3.817	7.256	3.749	1.968						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: See above.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
 Line Item No. & Name	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U)PMC Line(BLI# 636600)Power Equip APSCE	17.405	15.292	1.537	1.619	1.699	1.776	3.700	3.853	Cont	Cont
(U) PMC Line (BLI# 418100) TETS	46.812	41.786	8.288	11.854	0.000	0.000	0.000	0.000	Cont	Cont
(U) PMC Line (BLI# 418100) Autonomic Log	109.005	1.000	3.972	3.448	3.362	3.030	3.117	3.210	Cont	Cont
(U) PMC Line (BLI# 418100) Calibration	11.897	26.834	2.049	2.093	2.131	2.172	2.237	2.304	Cont	Cont
(U) Related RDT&E:										
(U) D. ACQUISITION STRATEGY:										
Competitive through the GSA Schedule. All other work is being done in-house at Marine Corps Logistics Base (MCLB), Albany, GA., Naval Surface Warfare Center (NSWC) Corona and Seal Beach, CA., Naval Surface Warfare Center (NSWC) Carderock, ATC, Aberdeen, Silver Eagle, Portland OR.										
AL Competitive through Marine Corps Systems Command Contracts. All other work is being done in house and at Gov Engineering facilities.										
(U) E. MAJOR PERFORMERS:	Automatic Test Equipment Program (ATEP), Albany, GA and Naval Surface Warfare Centers Corona and Seal Beach, CA. All other performers to be determined at this time.									

Exhibit R-3 Cost Analysis										DATE: February 2006				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Systems Development			0206624M Marine Corps Combat Svs Spt				C2929 Testing Measuring Diagnostic Equip (TMDE) & SE							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Program Support	FFP	MCSC, Quantico VA	0.851	0.375	12/05	0.255	02/07	1.000	11/07	0.000		0.000	2.106	0.87
Eval Testing	RCP	MCSC, Quantico VA	0.318	1.197	08/06	0.393	02/07	0.821	02/08	0.000		0.000	1.532	2.398
Study & Hardware	RCP	NSWC, Corona, CA	1.111					0.308	12/07	0.331	12/08	Cont	Cont	Cont
Hardware	RCP	Willitis Electronic Assembly	0.019	0.092	12/05			0.000		0.000		0.000	0.019	0.111
Hardware	RCP	MCSC, Quantico VA	0.298	0.320	12/05	4.250	12/06	0.000		0.000		0.000	4.548	4.860
Software Support	WR	ATEP, Ga	0.525	0.500	12/05	0.354	12/06	0.250	12/07	0.143	12/08	Cont	Cont	Cont
Hardware & Study	WR	NSWC, Ca	0.545			0.775	12/06			0.000		Cont	Cont	Cont
Study & Hardware	RCP	NSWC, Corona CA		0.302	06/06	0.092	12/06	0.850	12/07	0.976	12/08	Cont	Cont	Cont
Study and Hardware	RCP	Mortrup Chicago		0.501	02/06	0.500	12/06							
Subtotal Product Dev			3.667	3.287		6.619		3.229		1.450		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Travel	DTS	MCSC, Quantico VA	0.164	0.024	02/06	0.037	12/06			0.000		Cont	Cont	
Study and hardware	WR	ATEP, GA		0.334	02/06	0.250	12/06	0.250	12/07	0.248	12/08	Cont	Cont	Cont
Software Support	WR	ATEP, GA		0.122	02/06	0.250	12/06	0.270	12/07	0.270	12/08	Cont	Cont	Cont
Subtotal Support			0.164	0.480		0.537		0.520		0.518		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Eval Testing	WR	NSWC, Carderock,MD	0.051	0.025	02/06	0.050	02/07	0.000		0.000		Cont	Cont	
Subtotal T&E			0.051	0.025		0.050		0.000		0.000		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) POM08 Program Ad	FFP	MCSC, Quantico	0.400	0.025	02/06	0.050	12/06	0.000		0.000		Cont	Cont	2.445
Subtotal Management			0.400	0.025		0.050		0.000		0.000		Cont	Cont	
Remarks:														
Total Cost			4.282	3.817		7.256		3.749		1.968		Cont	Cont	

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206624M Marine Corps Combat Services Spt			PROJECT NUMBER AND NAME C9999 FY06 Congressional Adds				
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
	5.746	0.000	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Project 9872N - The Autonomic Logistics (AL) program provides weapon system sensor data collection and processing for information conversion to provide situational awareness. FY-06 effort will focus on developing system, operational, and technical archite

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Project 9645N - Battlefield Management System (BMS) – Designed primarily for tracked combat vehicles such as the M1 Main Battle Tank and Advanced Amphibious Assault Vehicle, AS2 is an integrated hardware and software suite that provides both weapons contr

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM

During FY-06 the AL program will conduct R&D efforts to explore collection & processing of system health data from weapon systems sensor and digital data buss structures for system health information. Work will include diagnostic and prognostic algorithm

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.394	0.000	0.000	0.000
RDT&E Articles Qty				

Autonomic Logistics 9872N: Develop new technology for sustainment of current Marine Corps Automatic Test Equipment.

COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	3.352	0.000	0.000	0.000
RDT&E Articles Qty				

Battlefield Management Sys (BMS) 9645C: Support of BMS Analysis Related to C2PC/JTCW.

(U) Total \$	5.746	0.000	0.000	0.000
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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206624M Marine Corps Combat Services Spt				C9999 FY06 Congressional Adds				
(U) PROJECT CHANGE SUMMARY:	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>					
(U) FY 2007 President's Budget:	6.000	0.000	0.000	0.000					
(U) Adjustments from the President's Budget:									
(U) Congressional Program Reductions	-0.060								
(U) Congressional Rescissions									
(U) Congressional Increases									
(U) Reprogrammings									
(U) SBIR/STTR Transfer	-0.168								
(U) Minor Affordability Adjustment	-0.026								
(U) FY 2008 NavCompt Budget:	5.746	0.000	0.000	0.000					
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See above.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) Related RDT&E:									
(U) D. ACQUISITION STRATEGY:									
Funding to date has been provided solely via congressional plus-ups to the program elements (PE).									
(U) E. MAJOR PERFORMERS:									