

EXHIBIT R-2, RDT&E Budget Item Justification					DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT (PE) NAME AND NO.						
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Systems						
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	245.129	233.708	280.140	248.687	195.421	190.864	173.310	155.997
C2270 Expeditionary Indirect General Support Weapon Systems	22.031	15.030	36.144	37.653	30.399	32.038	36.037	34.921
C2272 Intelligence C2 Systems	26.639	26.571	17.052	18.624	26.036	26.332	22.989	24.644
C2273 Air Operations C2 Systems	80.884	47.098	43.238	27.825	22.737	11.501	8.491	6.449
C2274 Command & Control Wargare Systems	5.901	3.827	11.320	8.835	8.952	9.747	10.445	10.945
C2275 Joint Tactical Radio Systems	11.843	14.557	10.259	10.208	6.302	5.548	4.099	4.180
C2276 Communications Switching & Control Systems	3.497	4.477	4.783	2.574	0.811	0.826	0.326	0.335
C2277 System Engineering & Integration	10.613	8.855	6.833	6.988	7.197	7.409	8.851	9.095
C2278 Air Defense Weapons Systems	14.443	6.399	1.859	4.587	3.967	3.723	3.823	3.910
* C2315 Training Devices/Simulators	8.513	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2510 MAGTF CSSE & SE	15.901	35.178	36.647	38.841	29.806	29.660	34.502	16.509
C3099 Radar Systems	25.354	55.527	112.005	92.552	59.214	64.080	43.747	45.009
C9999 Congressional Adds	19.510	16.189	0.0	0.0	0.0	0.0	0.0	0.0
Quantity of RDT&E Articles								
<p>This program element provides funding to develop the command and control (C2) support and information infrastructures for the Fleet Marine Force and supporting establishment. Doctrinally, the C2 support system and the information infrastructure form two</p> <p>Within this program element, subprojects have been grouped by C2 functional area for more efficient planning. Air defense weapons systems have been added to facilitate planning and a separate project is used for systems assigned to the supporting establi</p> <p>This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.</p> <p>Note:</p> <p>* Funds for Project C2315 were realigned to PE 0206623M in FY07.</p>								

February 2007

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

PROGRAM ELEMENT (PE) NAME AND NO.
0206313M Marine Corps Communications Systems

B. PROGRAM CHANGE SUMMARY

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) FY 2007 President's Budget:	256.291	218.460	193.192	291.472
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions	-0.094			
(U) Congressional Rescissions				
(U) Congressional Increases		16.250		
(U) Reprogrammings	-5.571		85.114	-45.019
(U) Reprogramming for Execution	-1.000			
(U) SBIR/STTR Transfer	-4.456			
(U) Minor Affordability Adjustment	-0.041	-1.002	1.834	2.234
(U) FY 2008 NAVCOMPT Budget:	245.129	233.708	280.140	248.687

CHANGE SUMMARY EXPLANATION:

Congressional Add FY06 9862N for \$1.0M is being executed by ONR

(U) Funding: See Above.

(U) Schedule: Not Applicable.

(U) Technical: Not Applicable.

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 Systems Development		0206313M Marine Corps Communications Systems			C2270 Command Post Systems				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost		22.031	15.030	36.144	37.653	30.399	32.038	36.037	34.921
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>Systems assigned to this project are to be used by commanders and their staffs to process, fuse, and tailor information to assist decision-making and enhance situational awareness. They will integrate and share information from sources both internal and external to the Marine Air-Ground Task Force (MAGTF) to provide a shared understanding of the battlespace. Maneuver Command and Control (C2) is the executive layer of decision support that retrieves and fuses information from functional areas. It provides an integrated representation of the battlespace or a specific area of concern. The subprojects below develop systems that report unit status and location to the Tactical Combat Operations (TCO) System, and disseminate maneuver information throughout the battlespace.</p> <p>Advanced Field Artillery Tactical Data System (AFATDS) - Consists of fire support Command and Control C2 software fielded on Marine Corps common hardware. AFATDS provides the MAGTF with the ability to rapidly integrate all supporting arms assets into maneuver plans via a digital link utilizing currently fielded communications equipment. AFATDS automates the fire planning, tactical fire direction, and fire support coordination required to support maneuver from the sea and subsequent operations ashore. The AFATDS program includes AFATDS software and hardware, the Effects Management Tool (EMT) (a C2PC injector), the Back-up Computer System (BUCS), and the Battery Maneuver Tactical Shelter (MTS).</p> <p>MAGTF Software Baseline (MSBL)/ Command and Control Personal Computer (C2PC). MSBL/C2PC is the software backbone of all ground command and control in the Marine Corps; it is the primary means of integrating blue force tracking, fires, maneuver and intelligence capabilities in Command Operations Centers; is the ground C2 capability in the MAGTF C2 initiative; is the key to Joint interoperability with other Services and between CoComs; and integrates air data links from the Common Aviation Command and Control System to provide an integrated air-ground digital picture for commanders. MSBL/C2PC is an evolutionary acquisition program that is in a constant R&D spiral necessary to remain interoperable with other Services and stay abreast of emerging Joint C4I requirements and standards, while also executing an aggressive life cycle support program for fielded capability throughout the Marine Corps. There are two separate but interrelated baselines of software development and support. The Common Operating Environment (COE) Unix baseline, which is Unix based server systems and the C2PC baseline which is a Windows based tactical workstations/system used at the company and above levels. A "light" version of C2PC has also been developed and fielded (C2CE) for hand-held for tactical workstations/systems used at the platoon and below level.</p> <p>The Common Aviation Command and Control System (CAC2S) (CAC2S FUNDING WILL BE A PART OF MAGTF C2 IN FY2010) will provide a common baseline of equipment, computer hardware, and software required to perform the mission of the Marine Air Command and Control System (MACCS). CAC2S will provide a capability that allows operators to integrate Marine aviation into joint and combined air/ground operations. CAC2S will be an open architecture system. CAC2S will provide the software integration to ground C2 via Command and Control Personal Computer (C2PC) functionality in order to improve air and ground situational awareness, blue force tracking and reduce the potential for fratricide.</p> <p>Tactical Command Operations (TCO) will provide systems to the command post which support Maneuver C2. Maneuver C2 is the executive layer of decision support that pulls and fuses information from other functional areas.</p> <p>Target Location Designation and Hand-Off System (TLDHS) Block II - Provides the ability for Forward Observers (FOs) and Forward Air Controllers (FACs) to: observe their area of interest, quickly and accurately locate ground targets, receive and display Blue Force Situational Awareness information and Fire Support Coordination Measures (FSCMs) on map displays interfaced with C2PC. TLDHS can digitally request and provide digital terminal control for target engagements by field artillery (FA) through AFATDS, close air support (CAS) aircraft, and naval surface fire support (NSFS), and the machine-to-machine interface of the system reduces the potential for fratricide due to human error and by displaying friendly positions and target locations to the terminal controller. TLDHS Block II also provides the capability to designate targets for laser-guided munitions and laser spot trackers. TLDHS Block II is comprised of and integrates two major subsystems: the Targeting Subsystem and the Target Hand-Off Subsystem. USMC MS C for TLDHS Block II was June 2005 and the Fielding Decision was June 2006.</p>									

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems			
<p>Marine Air Ground Task Force, Command and Control (MAGTF C2) Systems Applications -Marine Air Ground Task Force C2 (MAGTF C2) is a holistic end-to-end MAGTF C2 transformation across all the MAGTF elements - Air Combat Element (ACE), Ground Combat Element (GCE), INTEL, & Combat Service Support Element (CSSE). It enhances lethality and effectiveness across the range of military operations through better decision making and shared understanding. MAGTF C2 enables network-centric operations throughout the MAGTF and empowers the initiative of warfighters at all levels command by harnessing the synergy of commanders interest and enabling technology.</p> <p>Blue Force Situational Awareness (BFSA)+A4 is the Marine Corps' Situational Awareness family of systems comprised of the Mounted and Dismounted variants of terrestrial (EPLRS/SINGARS) systems, and the mounted celestial (SATCOM) system.</p> <p>Data Automated Communications Terminal (DACT) The Data Automated Communications Terminal (DACT) is the Marine Corps' Blue Force Tracking Program of Record. It is the primary source of all tactical ground tracks below the Marine battalion, and is the primary provider of Position Location Information (PLI) into the Combat Operations Center (COC) and to Joint forces viewing the Common Operational Picture (COP). DACT is one tool in the Joint Combat ID toolbox that the Marine Commander uses to reduce the potential for fratricide.</p> <p>The Mounted Data Automated Communication Terminal (M-DACT) (IOC 2nd Qtr FY03) consists of the Ruggedized Handheld Computer (RHC) with Command and Control Personal Computer (C2PC) software integrated with various tactical vehicle platforms and communications systems through the use of a Vehicle Modification (VM) Kit. It is mounted in vehicles from the battalion to the mechanized platoon (HMMWV, AAV, LAV, and Tanks).</p> <p>The Dismounted Data Automated Communications Terminal (D-DACT) (IOC 2nd Qtr FY05) is a smaller, lighter handheld device having greater battery life, consisting of the Rugged Personal Digital Assistant (R-PDA) and Control CE (C2CE) software. The Dismounted DACT is intended for the dismounted user at the platoon level. Future DACT improved capabilities for replacement systems will meet stipulated Operational Requirements and OIF-derived Requirements to provide Blue Force Tracking and automated communications support for commanders in tactical operations. New capabilities will include Non Line of Sight (NLOS) and enhanced communication paths; improved Graphic User Interface (GUI) software, a larger screen, and Selective Availability Anti-Spoofing Module (SAASM) GPS integration.</p> <p>Blue Force Tracker (BFT) The BFT System is a satellite-based Tracking and Communication System. BFT provides the capability to identify position, track progress, and communicate with the operators of tactical wheeled vehicles. It is intended to provide real-time, in-transit visibility of vehicles and cargo within a theater of operation. The BFT is employed to the battalion level to provide operational commanders with USMC/Army Position Location Information within the area of operations.</p>					
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.998	1.750	2.009	1.513
RDT&E Articles Qty					
TLDHS: Test Development and integration support.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.074	0.818	0.479	0.316
RDT&E Articles Qty					
AFATDS: Development of BackUp Computer System (BUCS) and Software (SW).					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.081	0.084	0.086	0.088
RDT&E Articles Qty					
AFATDS: SPAWAR Test and Integration.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.469	0.244	0.520	0.520
RDT&E Articles Qty					

EXHIBIT R-2a, RDT&E Project Justification			DATE:	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-7 Operational Systems Development	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems	PROJECT NUMBER AND NAME C2270 Command Post Systems		
AFATDS: Program Management, engineering support and hardware development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.161	0.036	0.038	0.040
RDT&E Articles Qty				
AFATDS: MCTSSA tested new Software (SW) and Federation of Systems (FEDOS).				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	3.184	1.811	1.546	1.819
RDT&E Articles Qty				
AFATDS: Development of improved interoperability with USMC and Joint Systems. Enhancement to EMT and C2PC interface.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.604	1.858	2.871	2.725
RDT&E Articles Qty				
AFATDS: Development of Software Block II (SWBII) and future software. Increased functionally, interoperability and ease of use. Better interface with USMC and USN systems.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.435	0.000	0.000	0.000
RDT&E Articles Qty				
AFATDS: Gun Display Unit.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.650	0.000	0.000	0.000
RDT&E Articles Qty				
C2PC: Software Development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.162	0.000	0.000	0.000
RDT&E Articles Qty				
C2PC: Program Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	1.026	0.000	0.000
RDT&E Articles Qty reprogrammed				
C2PC: Build, test, field and support COE compliant versions of MSBL and C2PC to fulfill C2 requirements in the six Warfighting functions focuses primarily on the integration, inclusion and incorporation of Fire Support, Maneuver and Intel capabilities.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.411	0.000	0.000
RDT&E Articles Qty				
C2PC: Engineering Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.961	0.000	0.000
RDT&E Articles Qty				
C2PC: Program Management Support.				

EXHIBIT R-2a, RDT&E Project Justification			DATE:	
APPROPRIATION/BUDGET ACTIVITY			PROJECT NUMBER AND NAME	
RDT&E, N/BA-7 Operational Systems Development			C2270 Command Post Systems	
PROGRAM ELEMENT NUMBER AND NAME				
0206313M Marine Corps Communications Systems				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.000	2.442
RDT&E Articles Qty				
C2PC: Development of MSBL Client in MS Windows environment (C2PC) and foot mobile Marines in Windows CE environment, Command and Control Compact Edition (C2CE).				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			1.400	0.000
RDT&E Articles Qty reprogrammed				
MAGTF Software Baseline: Build, test, field and support COE compliant versions of MSBL and C2PC to fulfill C2 requirements in the six Warfighting functions focuses primarily on the integration, inclusion and incorporation of Fire Support, Maneuver and Intel capabilities.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.411	0.000
RDT&E Articles Qty				
MAGTF Software Baseline: Engineering Support.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			2.042	0.000
RDT&E Articles Qty				
MAGTF Software Baseline: Program Management Support.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			2.458	0.000
RDT&E Articles Qty				
MAGTF Software Baseline: Development of MSBL Client in MS Windows environment (C2PC) and foot mobile Marines in Windows CE environment, Command and Control Compact Edition (C2CE).				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.000	0.000
RDT&E Articles Qty reprogrammed				
MAGTF C2: Build, test, field and support a common software baseline to fulfill C2 requirements across the six Warfighting functions focused initially on the integration, inclusion and incorporation of Fire Support, Maneuver and Intel capabilities.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.000	0.000
RDT&E Articles Qty				
MAGTF C2: Engineering Support.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.000	0.000
RDT&E Articles Qty				
MAGTF C2: Program Management Support.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.000	0.000
RDT&E Articles Qty				
MAGTF C2: Program Management Support.				
COST (\$ in Millions)			FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost			0.000	0.000
RDT&E Articles Qty				
MAGTF C2: Conduct C2PC Code Quality Analysis.				

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.007	0.007
RDT&E Articles Qty				
MAGTF C2: NMCI Certification Cost.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.490	1.765
RDT&E Articles Qty				
MAGTF C2 Program Management.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	9.263	7.229
RDT&E Articles Qty				
MAGTF C2 Software Development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.592	1.836
RDT&E Articles Qty				
MAGTF C2 Integration, IV&V, Logistics.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.414	0.293
RDT&E Articles Qty				
MAGTF C2 ECP and trouble desk support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.505	0.357
RDT&E Articles Qty				
MAGTF C2 JTCW Operational Testing.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.803	0.568
RDT&E Articles Qty				
MAGTF C2 Licensing and Server Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.808	0.572
RDT&E Articles Qty				
MAGTF C2 PDSS				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	6.646	8.873
RDT&E Articles Qty				
MAGTF C2 Software Refactoring.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.034	0.000	0.000	0.000
RDT&E Articles Qty				
DACT: DACT FMF test support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N/BA-7 Operational Systems Development		0206313M Marine Corps Communications Systems		C2270 Command Post Systems	
Accomplishment/Effort Subtotal Cost		0.862	0.000	0.000	0.000
RDT&E Articles Qty					
DACT: Mount Development.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.202	0.000	0.000	0.000
RDT&E Articles Qty					
DACT: Protocol Implementation.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.020	0.000	0.000	0.000
RDT&E Articles Qty					
DACT: DACT Technical Support Plan.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.900	0.298	1.329
RDT&E Articles Qty					
BFSA: FMF test support.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000	0.636
RDT&E Articles Qty					
BFSA: Increased Capabilities.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.828	0.000	1.200
RDT&E Articles Qty					
BFSA: Mount Development.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.650	0.150	0.159
RDT&E Articles Qty					
BFSA: SW Integration.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.500	0.057	0.055
RDT&E Articles Qty					
BFSA: Training Development.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.155	0.170	0.174	0.225
RDT&E Articles Qty					
TCO: Program management and engineering support.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.204	0.164	0.167	0.214
RDT&E Articles Qty					
TCO: System testing and integration to develop additional functional capabilities.					

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 Systems Development		0206313M Marine Corps Communications Systems			C2270 Command Post Systems	
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.185	0.149	0.152	0.225	
RDT&E Articles Qty						
TCO: Integrate software changes into new system and perform testing.						
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.240	0.228	0.241	0.289	
RDT&E Articles Qty						
TCO: Testing and validations of advanced concepts and technologies.						
(U) Total \$		22.031	15.030	36.144	37.653	

(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:	18.131	15.095	17.187	19.982
(U) Adjustments from the President's Budget:				
(U) Congressional Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	4.023		19.636	17.264
(U) SBIR/STTR Transfer	-0.136			
(U) Minor Affordability Adjustments	0.013	-0.065	-0.679	0.407
(U) FY 2008 President's Budget:	22.031	15.030	36.144	37.653

CHANGE SUMMARY EXPLANATION:

- (U) Funding: See Above.
- (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>
PMC BLI 463100 DACT	8.248	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.248
PMC BLI 463100 AFATDS	3.898	10.088	2.253	0.862	3.418	3.482	3.549	3.631	Cont	Cont
PMC BLI 463100 BFSA	19.900	69.273	11.360	7.068	5.140	3.140	15.611	20.789	Cont	Cont
PMC BLI 463100 GCCS	3.871	10.504	4.648	4.561	4.909	5.033	5.099	5.191	Cont	Cont
PMC BLI 463100 TCO	0.183	0.413	0.410	0.210	0.220	0.230	0.237	0.243	Cont	Cont
PMC BLI 463100 TLDHS	2.636	13.843	0.920	1.023	1.023	2.045	2.084	2.132	Cont	Cont

(U) Related RDT&E:

- (U) PE 0301301L (Department of Defense Intelligence and Information Systems/Military Intelligence Integrated Data System/Integrated Data Base I and II) Defense.
- (U) Navy Tactical Flag Communication and Control System.

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems																
<p>(U) D. ACQUISITION STRATEGY:</p> <p>(U) TLDHS: The acquisition of components (software/hardware) for the TLDHS initiative will maximize the use of existing COTS, GOTS, NDI and GFE. Software development is conducted utilizing a sole source small-business contract.</p> <p>(U) AFATDS: AFATDS is a Cost Plus Award Fee contract through Army CECOM, Ft. Monmouth, NJ. R&D efforts will be a combined effort between the software developer (Raytheon), the Army PM and the USMC of software enhancements for the next planned versions of AFATDS.</p> <p>(U) MSBL/C2PC: Funds applied to a CPIF contract with Northrop Grumman Mission Systems, San Diego, CA for development of MSBL client in MS Windows environment and development of client for foot mobile Marines in Windows environment. Funds applied to Titan Corporation, Dumfries, VA and OSEC, Stafford, VA under the CEOSS contract for program management and engineering support. Funds applied to SPAWAR, Charleston, SC to integrate applications, injectors and services, and to conduct independent verification and validation of MSBL, C2PC, C2CE and the integrated IOW and Joint Tactical COP Workstation builds.</p> <p>(U) TCO: Contracting is done with various vendors for software test and integration, COTS evaluation and documentation. The PMO conducts quarterly performance reviews.</p> <p>(U) MAGTF C2: Spiraled development of capabilities. Spiral development cycle is 2 years. Spiral 1 Initial Operational Capability (IOC) in 2010 has the following capabilities attributes: Single integrated air and ground picture; full real time to near real time, and non real time data exchange; integrated fire control. Spiral 2 IOC in 2012 has the following capabilities attributes: Single integrated air, ground, and Intel picture; full real time, near real time, and non real time data exchange. Spiral 3 IOC in 2014 and has the following capabilities attributes: Full integrated tactical air, ground, Intel, and CSSE display and integrated data environment. Each spiral will be accepted as an integrated whole, running on the target hardware, following a contractor development test.</p> <p>(U) DACT: The Program develops software and hardware for two operational domains. The Mounted DACT (M-DACT) (IOC 2nd Qtr FY03) consists of the Ruggedized Handheld Computer (RHC) with Command and Control Personal Computer (C2PC) software integrated with various tactical vehicle platforms and communications systems through the use of a Vehicle Modification (VM) Kit. It is mounted in vehicles from the battalion to the mechanized platoon (HMMWV, AAV, LAV, and Tanks). The acquisition objective of 1074 systems has been procured. The Dismounted DACT (D-DACT) (IOC 2nd Qtr FY05) is a smaller, lighter handheld device having greater battery life, consisting of the Rugged Personal Digital Assistant (R-PDA) with Windows Command and Control CE (C2CE) software. The Dismounted DACT is intended for the dismounted user at the platoon level. 1108 systems of the acquisition objective of 1944 have been procured.</p> <p>(U) E. MAJOR PERFORMERS:</p> <p>TARGET LOCATION DESIGNATION AND HAND-OFF SYSTEM (TLDHS)</p> <table border="0"> <tr> <td>FY06</td> <td>Stauder Technologies</td> <td>St Louis MI</td> <td>T&E</td> </tr> <tr> <td>FY07</td> <td>Stauder Technologies</td> <td>St Louis MI</td> <td>T&E</td> </tr> <tr> <td>FY08</td> <td>Stauder Technologies</td> <td>St Louis MI</td> <td>T&E</td> </tr> <tr> <td>FY09</td> <td>Stauder Technologies</td> <td>St Louis MI</td> <td>T&E</td> </tr> </table>			FY06	Stauder Technologies	St Louis MI	T&E	FY07	Stauder Technologies	St Louis MI	T&E	FY08	Stauder Technologies	St Louis MI	T&E	FY09	Stauder Technologies	St Louis MI	T&E
FY06	Stauder Technologies	St Louis MI	T&E															
FY07	Stauder Technologies	St Louis MI	T&E															
FY08	Stauder Technologies	St Louis MI	T&E															
FY09	Stauder Technologies	St Louis MI	T&E															

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems
ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEMS (AFATDS)		
FY06	RAYTHEON, Fort Wayne IN. Develop and test software. Oct 06 MCOTEA, Quantico, van. Test software. Award Dec 06. MCTSSA, Software Testing, Award Oct 06. SPAWAR, Charleston SC, Software Testing. Award Oct 06.	
FY07	RAYTHEON, Fort Wayne IN. Develop and test software. Oct 07 MCOTEA, Quantico, van. Test software. Award Dec 07. MCTSSA, Software Testing, Award Oct 07. SPAWAR, Charleston SC, Software Testing. Award Oct 07.	
FY08	RAYTHEON, Fort Wayne IN. Develop and test software. Oct 08 MCOTEA, Quantico, van. Test software. Award Dec 08 MCTSSA, Software Testing, Award Oct 08. SPAWAR, Charleston SC, Software Testing. Award Oct 08.	
FY09	RAYTHEON, Fort Wayne IN. Develop and test software. Oct 09 MCOTEA, Quantico, van. Test software. Award Dec 09. MCTSSA, Software Testing, Award Oct 09. SPAWAR, Charleston SC, Software Testing. Award Oct 09.	
MSBL		
FY 07	NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), San Diego, CA. Software development C2PC and C2CE (C2PC Light). Estimated contract award date: Oct 06 SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. Estimated contract award date: Oct 06	
TACTICAL COMBAT OPERATIONS (TCO)		
FY 06	SPAWAR, CHARLESTON, S.C. Provide funds to EMA, INC, Charleston, S.C. for Testing and Validation of new workstation concept, integrate software changes into new system, and perform testing.	
FY 07	SPAWAR, CHARLESTON, SC Provide funds to EMA, and SRC for testing of new workstation concept, integration of new software, and final acceptance testing.	
FY 08	SPAWAR, CHARLESTON, SC Provide funds to EMA and SRC for testing of new server concept, integration of new software, and final acceptance testing.	
FY 09	SPAWAR, CHARLESTON, SC Provide funds to EMA, and SRC for system software testing and integration,	
MAGTF C2		
FY 08-09	NGMS, San Diego. Product Software Development	
FY08-09	SPAWAR Charleston. Product Software Development	
DATA AUTOMATED COMMERCIAL TERMINAL (DACT)		
<u>FY07-13</u>		
NSWC SPAWAR, Charleston, SC, Integration and Program Support Ocean Systems Engineering Corporation (OSEC), Carlsbad, CA, Training Development L-3 Com/Titan, Stafford, VA Program Support		

Exhibit R-3 Cost Analysis

DATE:

FEBRUARY 2007

APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N/BA-7 Operational Systems Development			0206313M Marine Corps Communications Systems					C2270 Command Post Systems						
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
TLDHS	RCP	MCSC, QUANTICO, VA	4.564	2.088	03/06	1.500	08/06	1.759	08/06	1.263	08/06	Cont	Cont	
AFATDS	WR	SPAWAR, Charleston, SC	0.015	0.082	02/06	0.084	10/06	0.086	10/07	0.088	10/08	Cont	Cont	
AFATDS	WR	MCTSSA QUANTICO VA	0.030	0.045	11/05	0.036	11/06	0.038	11/06	0.040	11/08	Cont	Cont	
AFATDS	MPR	CECOM FT MONMOUTH	2.623	3.791	03/06	4.413	03/07	4.822	03/08	4.793	03/09	Cont	Cont	
AFATDS	RCP	CEOSS CTQ MCSC	0.499	0.461	01/06	0.244	01/07	0.520	01/07	0.520	01/09	Cont	Cont	
AFATDS	RCP	KCI, Stafford VA	0.000	0.046	01/06								0.046	
AFATDS	Repro	MCSC, QUANTICO, VA	0.000	0.040	01/06								0.040	
AFATDS	MP	PMI&E FT. MONMOUTH	0.000	1.435	N/A								1.435	
MAGTF SOFTWARE BASELINE	RCP	NGMS, San Diego	8.583	0.166	05/06								2.042	
MAGTF SOFTWARE BASELINE	WR/RCP	SPAWAR Charleston	2.876	1.4	10/05								8.749	
MAGTF SOFTWARE BASELINE	RCP	MCSC QUANTICO VA	0.000	2.292	04/06								4.276	
C2PC	RCP	MCSC QUANTICO VA	0.000	2.42	04/06								2.292	
C2PC	MP	SPAWAR	0.000	0.23		1.000	10/06						3.420	
C2PC	RCP	NGMS, SAN DIEGO	0.000			1.058	10/06						1.288	
MAGTF C2	RCP	NGMS, San Diego	0.000					18.182	10/07	17.800	10/08	Cont	Cont	
MAGTF C2	WR/RCP	SPAWAR Charleston	0.000					3.737	10/07	3.460	10/08	Cont	Cont	
TCO	WR/RCP	SPAWAR. Charleston, SC	1.328	0.776	11/05	0.703	11/06	0.722	11/07	0.941	11/08	Cont	Cont	
TCO	MP	Robins AFB	0.016	0.008	10/05	0.008	11/06	0.012	11/07	0.012	11/08	Cont	Cont	
BFSA	FFP	SPAWAR. Charleston, SC	0.090	0.000		0.650	01/07	0.150	01/08	0.824	01/09	Cont	Cont	
BFSA	FFP	OSEC, Carlsbad, CA	0.600	0.000		0.500	01/07	0.055	01/08	0.055	01/09	Cont	Cont	
BFSA	UNK	TBD (Mount Development)		0.000		0.828	11/06	0.000	01/08	1.200	01/08	Cont	Cont	
		Northrop Grumman, San Diego	0.450										0.450	
DACT	RCP	MCSC, QUANTICO, VA	0.000	1.721	05/06								1.721	
DACT	RCP	MCTTSA, Camp Pendleton	0.320	0.043	04/06								0.363	
DACT	RCP	MCSC, QUANTICO, VA	0.000	0.052	02/06								0.052	
DACT	MPR	DISA	0.000	0.050	03/06								0.050	
DACT	MPR	CECOM	0.000	0.252	03/06								0.252	
Subtotal Product Dev			20.534	17.398		11.024		30.083		30.996		Cont	Cont	

Remarks:

Exhibit R-3 Cost Analysis

DATE:

FEBRUARY 2007

APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Systems Development			0206313M Marine Corps Communications Systems					C2270 Command Post Systems						
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
TLDHS	WR	NSWC CRANE	0.875	0.100	12/05	0.100	12/06	0.100	12/07	0.100	12/08	Cont	Cont	
MAGTF SOFTWARE BASELINE	WR	MCTSSA	0.734	0.411	01/06								1.145	
C2PC	RCP	MCTSSA	0.000	0.012	03/06								0.012	
C2PC	RCP	DISA	0.000	1.150	04/06								1.150	
C2PC	RCP	MCOTEA FY06	0.000			0.350	10/06						0.350	
C2PC	RCP	WEB LOGIC LICENSE FY06	0.000			0.275	10/06						0.275	
C2PC	RCP	CARNIGIE MELLON	0.000			0.150	02/06						0.150	
C2PC	RCP	NMCI CERTIFICATION	0.000			0.007	10/06						0.007	
MAGTF C2	RCP	MCOTEA FY06	0.000					0.656	10/07	0.608	10/08	Cont	Cont	
MAGTF C2	RCP	WEB LOGIC LICENSE FY06	0.000					0.361	10/07	0.334	10/08	Cont	Cont	
MAGTF C2	WR/RCP	MCTSSA	0.000					0.538	10/07	0.498	10/08	Cont	Cont	
MAGTF C2	RCP	MCHS	0.000					0.683	10/07	0.632	10/08	Cont	Cont	
TCO	WR	MCTSSA	0.000										0.004	
Subtotal Support			1.609	1.673		0.882		2.338		2.172		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
TLDHS	MP	DES MOINES	0.000	0.036	12/05								0.036	
TLDHS	WR	MCSC QUANTICO VA	0.000	0.074	02/06								0.074	
TLDHS	Repro	MCOTEA	0.600	0.700	01/06	0.150	01/07	0.150	01/08	0.150	01/09	Cont	Cont	
TLDHS	WR	Dahlgren VA	0.898										0.898	
TLDHS	MP	Ft. Huachuca AZ	0.075										0.075	
AFATDS	WR	MCOTEA	0.000	0.074	12/05	0.074	12/06	0.076	12/07	0.074	12/08	Cont	Cont	
BFSA	WR	FMF, MCB Camp Pendleton/				0.900	11/06	0.298	01/08	1.300	01/09	Cont	Cont	
DACT		MCOTEA TESTING	0.434	0.034	04/06								0.468	
												Cont	Cont	
												Cont	Cont	
												Cont	Cont	
Subtotal T&E			2.007	0.918		1.124		0.524		1.524		Cont	Cont	

Remarks:

Exhibit R-3 Cost Analysis								DATE: FEBRUARY 2007						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDTE, N/BA-7 Operational Systems Development			0206313M Marine Corps Communications Systems					C2270 Command Post Systems						
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
MAGTF SOFTWARE BASELINE	RCP	MCSC QUANTICO CTQ	6.948	2.042	10/06								8.990	
C2PC	RCP	MCSC QUANTICO CTQ	0.000			2.000	10/06						2.000	
MAGTF C2	RCP	MCSC QUANTICO CTQ	0.000					3.199	10/07	2.961	10/08	Cont	Cont	
Subtotal Management			6.948	2.042		2.000		3.199		2.961		Cont	Cont	
Remarks:														
Total Cost			31.098	22.031		15.030		36.144		37.653		Cont	Cont	

Exhibit R-4-4a Project Schedule/Detail

DATE: FEBRUARY 2007

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

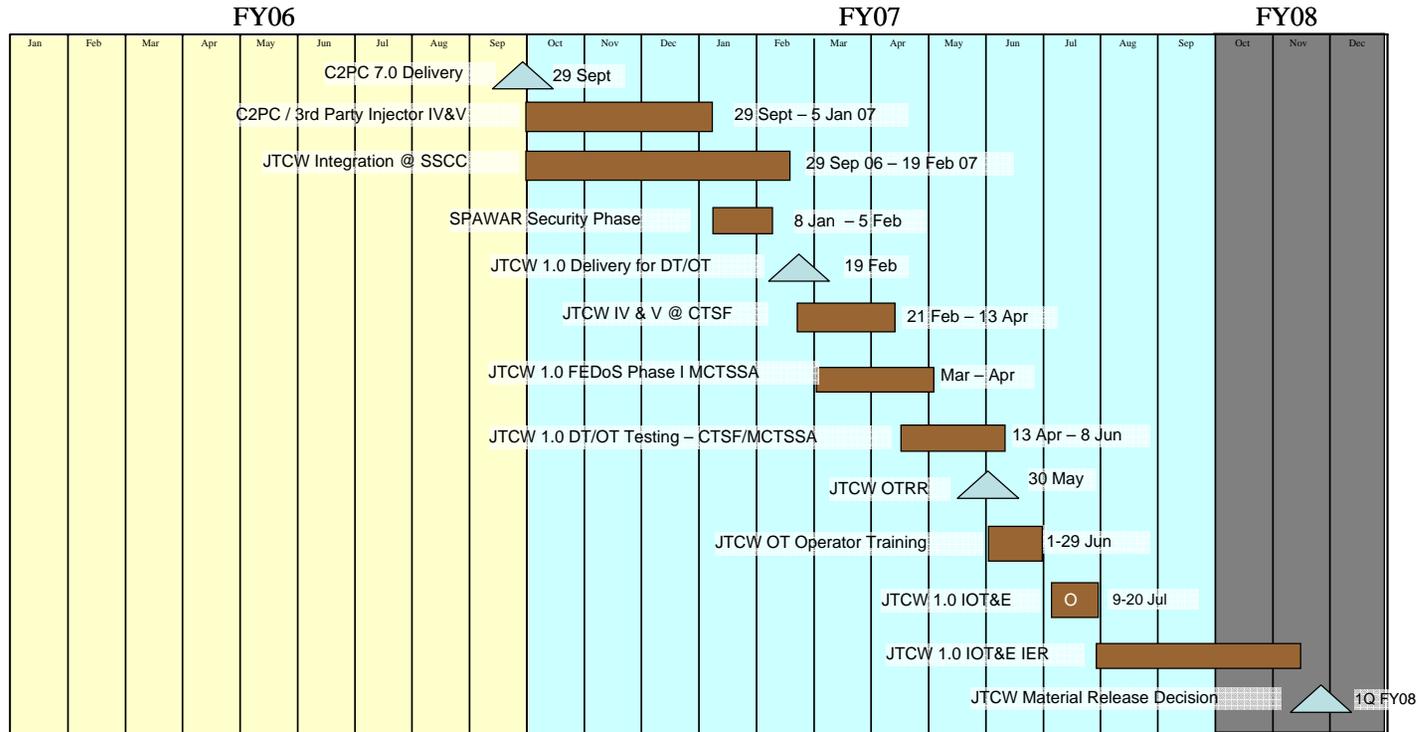
PROJECT NUMBER AND NAME

RDT&E, N /BA-7 Operational Systems Development

0206313M Marine Corps Communications Systems

C2270 Command Post Systems

MSBL/C2PC & MAGTF C2



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N C2270 C2PC	3.812	4.840	0.000	0.000	0.000	0.000	0.000	0.301	0.000	8.953
(U) RDT&E,N C2270 MAGTF Software Baseline	6.311	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.311
(U) RDT&E,N C2270 MAGTF C2 Systems Applications	0.000	0.000	28.278	26.300	20.667	22.852	24.993	23.306	Cont	Cont

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems						
MSBL SCHEDULE DETAIL								
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
C2PC 7.0 Delivery	4th Qtr							
JTCW 1.0 Delivery for DT/OT		2nd Qtr						
JTCW OT Operator Training		3rd Qtr						
JTCW 1.0 IOT&E		4th Qtr						
JTCW Material Release Decision			1st Qtr					

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

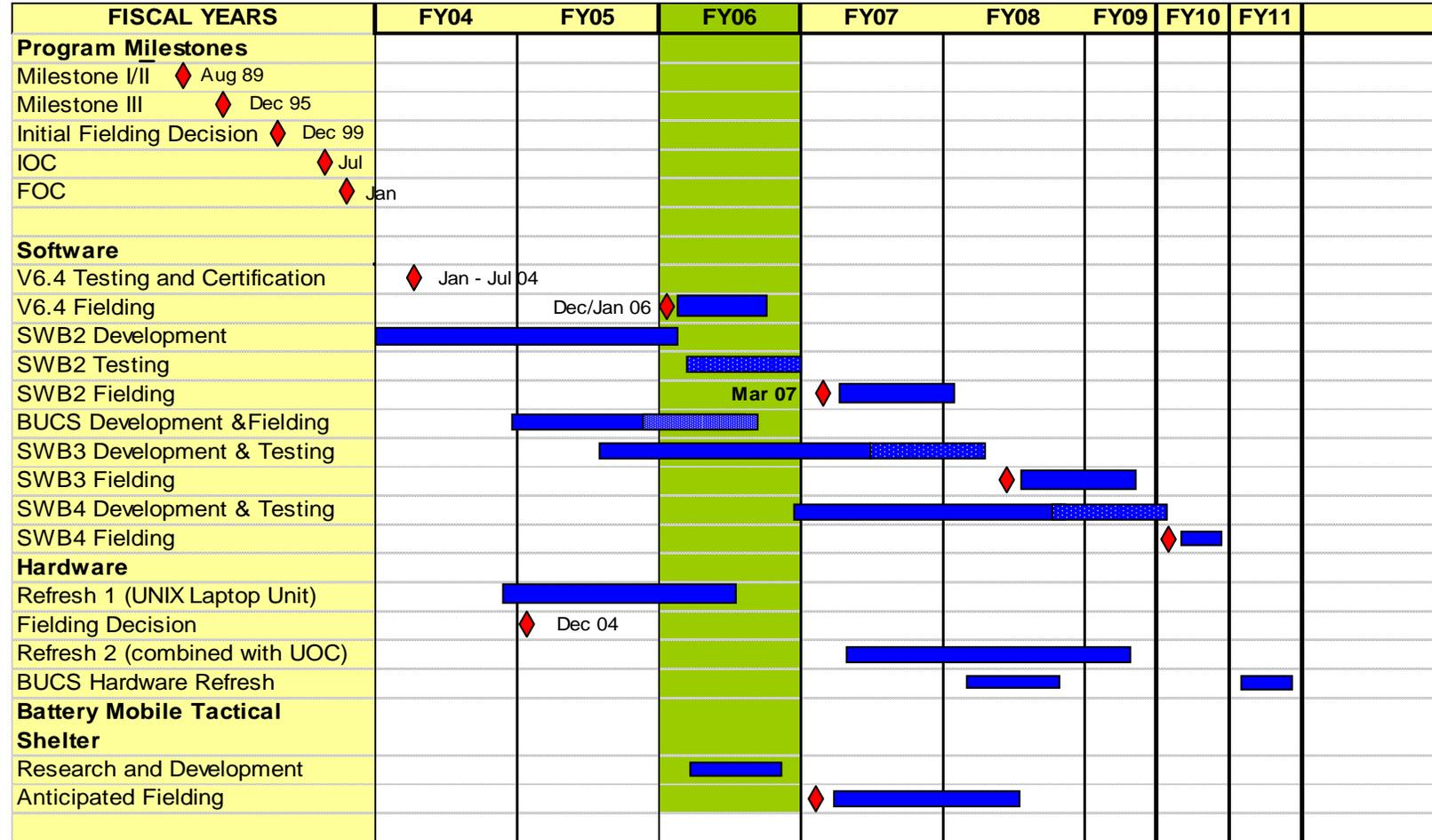
PROJECT NUMBER AND NAME

RDT&E, N /BA-7 Operational Systems Development

0206313M Marine Corps Communications Systems

C2270 Command Post Systems

ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEMS (AFATDS)



Program Funding Summary

(APPN, BLI#, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N, C2270, AFATDS	6.008	4.851	5.540	5.508	5.271	5.818	5.939	6.072	Cont	Cont
(U) PMC BLI, 463100, AFATDS	3.898	10.088	2.253	0.862	3.418	3.482	3.549	3.631	Cont	Cont

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems

AFATDS SCHEDULE DETAILS

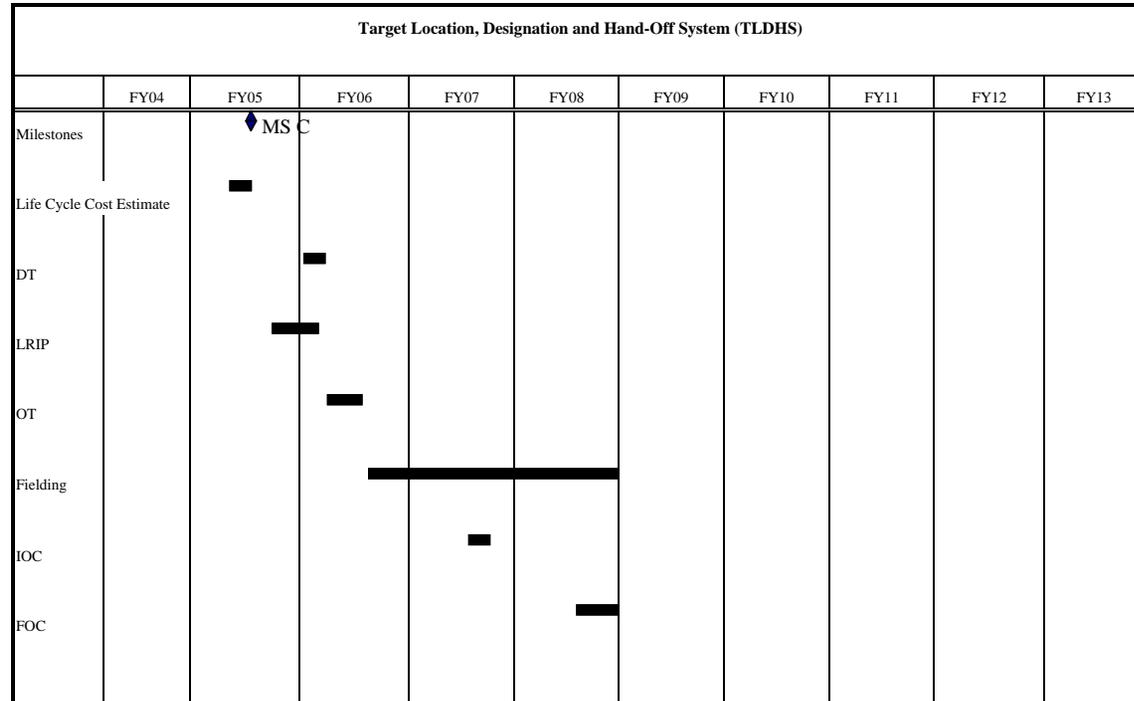
AFATDS DELIVERY DETAILS	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
AFATDS Software Block 2 Delivery		2nd Qtr						
AFATDS Software Block 3 Delivery			3rd Qtr					
AFATDS follow on Software Delivery					1st Qtr	3rd Qtr		1st Qtr
EMT Software Delivery		2nd Qtr	3rd Qtr		1st Qtr	3rd Qtr		1st Qtr
BUCS V2.0 Delivery		1st Qtr						
BUCS follow on Software Delivery			3rd Qtr					
Shelter Fielding		3rd Qtr						

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 Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems

TLDHS SCHEDULE



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N C2270 TLDHS	2.998	1.750	2.009	1.513	1.513	1.008	1.031	1.055	Cont	Cont
(U) PMC BLI 4631000 TLDHS	2.636	13.843	0.926	1.033	1.035	2.054	2.084	2.132	Cont	Cont

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2270 Command Post Systems

TLDHS SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone C	3rd Qtr							
Life Cycle Cost Estimate	3rd Qtr							
DT		1st Qtr						
LRIP		1st Qtr						
OT		3rd Qtr						
Fielding		4th Qtr	-----	4th Qtr				
IOC			4th Qtr					
FOC				4th Qtr				

Exhibit R-4-4a Project Schedule/Detail

DATE:

FEBRUARY 2007

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

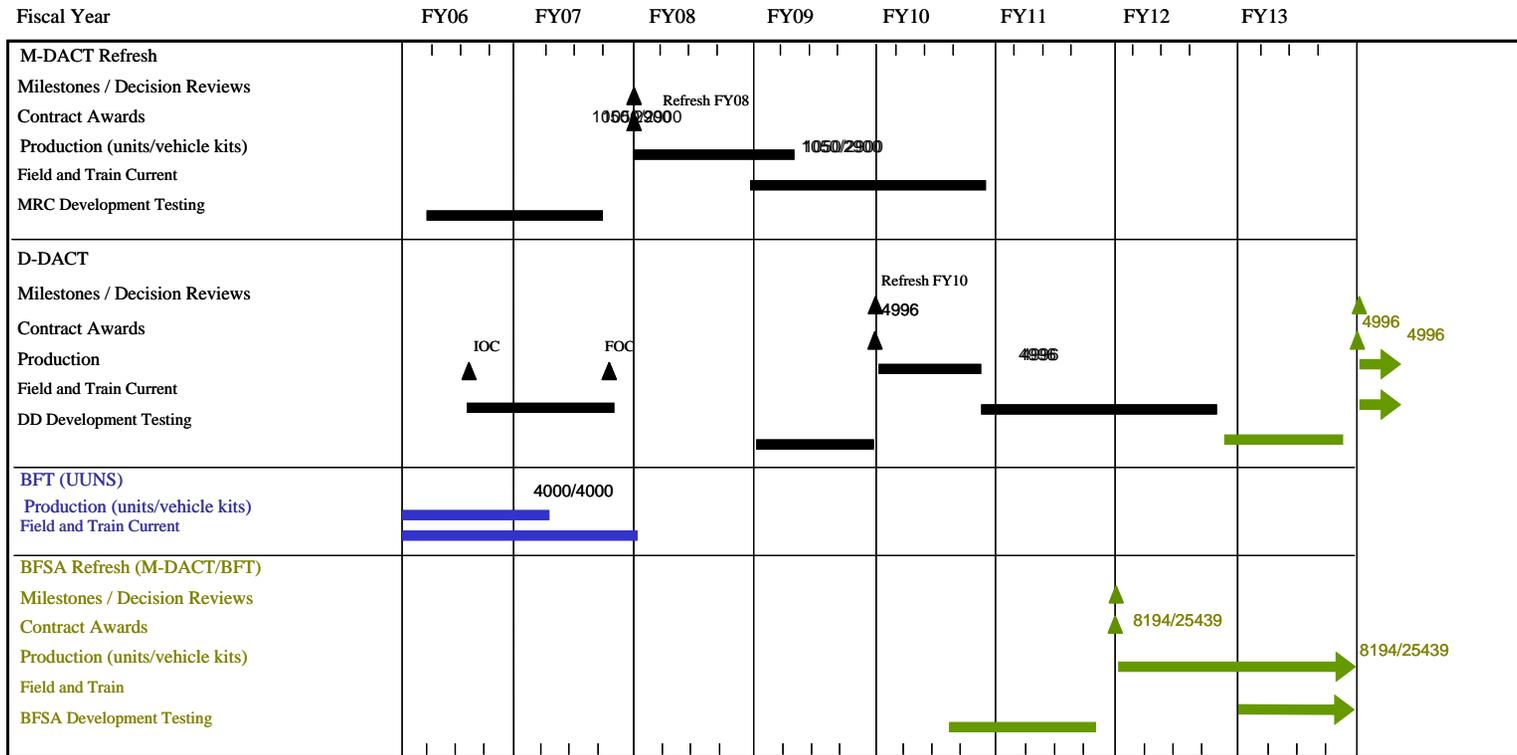
PROJECT NUMBER AND NAME

RDT&E, N /BA-7 Operational Systems Development

0206313M Marine Corps Communications Systems

C2270 Command Post Systems

DACT SCHEDULE



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N, C2270, DACT

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Comp	Total Cost
	2.118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont

UNCLASSIFIED

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 0206313M Marine Corps Communication Systems			PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		26.639	26.571	17.052	18.624	26.036	26.332	22.989	24.644
RDT&E Articles Qty									

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

(U) Intelligence Command and Control (C2) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence. It ensures that all-source tactical intelligence is tailored to meet specific mission requirements. The systems below collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination.

Tactical Exploitation of National Capabilities (TENCAP) is a program designed to enhance the ability of tactical Marine Corps forces to exploit the capabilities of national intelligence-gathering systems. Congressionally directed, it requires close liaison with the intelligence community and involves complex and highly-sensitive activities.

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

Joint Surveillance Target Attack Radar (JSTARS) connectivity program will research and integrate a client software connectivity solution which will allow the JSTARS Moving Target Indicator (MTI), Fixed Target Indication (FTI) and Synthetic Aperture Radar (SAR) data to be passed from the JSTARS Common Ground Station (CGS) to lower echelons within the MAGTF. Additionally, The Marine Corps will continue future MTI, CDL and MTI sensor capabilities and Internet Protocol Version 6 (IPv6) research and development .

Tactical Exploitation Group (TEG) - The TEG System is the only tactical imagery exploitation system in the United States Marine Corps (USMC) and is one of the four systems comprising the Distributed Common Ground\Surface System-Marine Corp (DCGS-MC). The modular and scaleable TEG employs a tiered approach comprised of two echelon-tailored configurations: the TEG-Main (TEG-M) and the TEG Remote Workstation (TEG-RWS). The TEG-M receives and processes national, theater, and tactical imagery and supplies the commander and subordinate commanders with exploitation reports and secondary imagery products for tactical operations, strike planning, precision targeting, detection and location of targets of opportunity, and battle damage assessment for restrike planning and intelligence assessment. The TEG-RWS provides imagery support to subordinate units within the MEF that do not require full TEG-M support. The TEG is also interoperable with the Army's Tactical Exploitation System (TES), the USAF Intelligence Systems Reconnaissance Manager (ISRM), the DCGS-Navy (DCGS-N) and other USMC C4I systems.

Counterintelligence (CI) and Human Intelligence (HUMINT) Equipment Program (CIHEP) provides the MAGTF with integrated, standardized, and interoperable information (automated data processing), communication, and specialized equipment to conduct the full spectrum of tactical CI/Force Protection to include Irregular Warfare, HUMINT, and technical collection operations in accordance with (IAW) applicable national oversight directives. CIHEP provides each CI/HUMINT Company (CIHCo) with a suite of state-of-the-market equipment comprised of commercial-off-the-shelf, government-off-the-shelf, and non-developmental items (COTS/GOTS/NDI). It integrates audio, video, imagery, communications, technical surveillance and computer equipment into lightweight, modular, scalable, deployable packages. CIHEP enhances the capability to collect, receive, process, and disseminate CI/HUMINT information from overt, sensitive, technical, tactical, and Force Protection, in the service, joint, and combined forces area of operations.

UNCLASSIFIED

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

0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME

C2272 Intelligence C2 Systems

Team Portable Collection System - Multi-Platform Capable (TPCS-MPC) - The TPCS- MPC will provide the MAGTF commander with a modular and scaleable carry on/off suite of equipment capable of conducting Signals Intelligence (SIGINT) operations onboard organic non-dedicated Marine Corps air, ground, and water borne platforms. The TPCS-MPC will be highly modular, mission configurable, multi-platform system incorporating plug-and-play technologies. The system will provide state-of-the-art, versatile air/ground/water borne Signals Intelligence (SIGINT) and Electronic Warfare (EW) support to the MAGTF through the use of lightweight, flexible mission equipment suites capable of detecting, identifying, locating, and exploiting current and emerging communications technologies, intercepting non-communication signals, and improving the system's geolocation accuracy.

Tactical Remote Sensor System (TRSS-PIP) - TRSS is a suite of hand emplaced and air-delivered unattended sensors, ground relays, and sensor monitoring stations, which are used by the Intelligence Battalions, Ground Sensor Platoons (GSPs). It provides the MEF/MAGTF Commander with an organic capability to conduct unattended, all-weather, semi-covert, ground surveillance of distant areas within his Area of Operations (AO). Through the use of seismic, acoustic, magnetic, infra-red, and imaging sensors, this suite provides an additional surveillance capability of personnel and/or vehicular activity, during tactical pre-assault, assault and post assault operations. TRSS covers gaps in the overall intelligence collection effort and reduces the requirement to employ Marines behind enemy lines for extended periods of time.

MAGTF Secondary Imagery Dissemination System (MSIDS) is the only ground prospective Family of Systems (FoS) that provides organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. MSIDS is comprised of components necessary to enable Marines to capture, manipulate, annotate, transmit or receive images in Near Real Time (NRT), internally with subordinate commands that are widely separated throughout the area of operations and externally with high adjacent commands. MSIDS capability resides with the MAGTF G/S-2 sections and Ground Reconnaissance units. The MSIDS FoS extends the digital imaging capability to all echelons within the MEF, down to and including battalions and squadrons. Captured images are capable of being forwarded throughout the MAGTF through the use of Base Station Workstation/Communication Interface (OW/CI) or existing C4ISR architecture. MSIDS FoS is currently employed in every location world-wide where the Marine Corps participates in military operations to include Irregular Warfare. MSIDS is currently, or has recently, been employed in Iraq, Kuwait, Afghanistan, Haiti, Philippines, and Horn of Africa.

Intelligence Analysis Systems (IAS) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence; it ensures that tactical intelligence is tailored to meet specific mission requirements to include Irregular Warfare.

Global Command and Control System Integrated Imagery and Intelligence (GCCS I3) is a joint program that is designed to enhance the operational Commander's situation awareness and track management through the use of a standard set of integrated, linked tools and services that maximize commonality and interoperability across the tactical theater, and national communities. GCCS-I3 operates in joint and service specific battlespace and is interoperable, transportable, and compliant with the DoD mandated Common Operating Environment (COE).

Technical Control Analysis Center (TCAC). The primary mission of the TCAC is to provide the Radio Battalions (RadBn) with an automated Signals Intelligence (SIGINT) processing, analysis, and reporting capability. The TCAC system is designed to receive collected intelligence from tactical, theater and National level producers and provide a multi-source fused intelligence production capability to support the Marine Air Ground Task Force (MAGTF) commander via the Intelligence Analysis System (IAS), as well as the National Security Agency (NSA) and other National consumers.

Intelligence Broadcast Receiver (IBR) provides Marine tactical commanders access to National level Near Real-Time intelligence data provided over the Integrated Broadcast Service. IBR is employed across the MAGTF echelons through the following Host Systems; Intelligence Analysis System; Tactical Air Operations Center; Technical Control and Analysis Center; Tactical Air Command Center; Joint STARS Common Ground Station; Tactical Electronic Reconnaissance Processing and Evaluation System and Common Air Command and Control Systems and Joint Stars Work Station.

Intelligence System Readiness (ISR) - provides timely and targeted solutions that enable the MAGTF Commander to accomplish the mission by rapid technology insertion, quick response training, logistics and provide interim support to mission essential legacy systems that are not otherwise supported through the POM process. By utilizing the Field User Evaluation (FUE) Process, the ISR program enhances the Marine Corps Intelligence Architecture by mitigating operational shortfalls through Commercial-Off-The-Shelf (COTS), Government-Off-The-Shelf (GOTS) and Non-Developmental Item (NDI) solutions. In this way, ISR provides proof-of-concept prototypes and focused Research and Development (R&D) efforts to support the Marine Corps Intelligence Architecture and shorten the time required to fill gaps and field systems. The ISR program Team also trains Marines to maximize new systems and capabilities.

UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTE, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems
<p>Trojan Spirit II - Two programs TROJAN SPIRIT II and TROJAN SPIRIT LITE are merging into a single program called TROJAN SPIRIT. TROJAN SPIRIT is a SHF multi-band satellite communications terminal, available in either High Mobility Multi-Purpose Wheeled Vehicle (HMMWV)-mounted or transit case configuration, that provides dedicated tactical communications capacity at the TS/SCI and Secret Collateral levels to USMC intelligence units. TROJAN SPIRIT terminals provide connectivity into JWICS, NSANET and SIPRNET via the TROJAN Network Control Center.</p> <p>Distributed Common Ground/Surface System-Marine Corps (DCGS - MC) - formerly known as Distributed Common Ground/Surface-Integration (DCGS-I), is a collection of Service Systems that will contribute to joint and combined warfighter needs for ISR support, with the Global Information Grid (GIG) providing unconstrained communications circa 2010 to support the Department of Defense (DoD) Intelligence, Sureveillance and Reconnaissance (ISR) Enterprise end-state. The DCGS Integrated Backbone (DIB) is the architecture that will tie the Service DCGS systems together into one Family of Systems (FOS). The DIB will provide the tools, standards, architecture, and documentation for the DCGS community to achieve a Multi-Intelligence (Multi-INT) (e.g. Imagery Intelligence (IMINT), Signal Intelligence (SIGINT), Measurement/Measuring and Signature Intelligence (MASINT), Counterintelligence/Human Intelligence (CI/HUMINT)), network centric environment with the interoperability to afford individual nodes' access to the information needed to execute their respective missions to include Irregular Warfare. The Marine Corps will conduct DIB integration reseach and development to meet a congressionally mandated implementation deadline.</p>		

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems		
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.026	0.035	0.037	0.038
RDT&E Articles Qty				
CIHEP: Engineering, Integration and Technical support for technical refresh and update of program hardware/software upgrades.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.080	0.091	0.091	0.091
RDT&E Articles Qty				
CIHEP: Program Management Support for the technical refresh and update of program hardware/software upgrades.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.420	0.440	0.044	0.434
RDT&E Articles Qty				
GCCS-13: Program Support, Integration and Software Engineering				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.800	0.978	0.000	1.012
RDT&E Articles Qty				
GCCS-13: Software Engineering Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.110	0.100	0.000	0.100
RDT&E Articles Qty				
GCCS-13: Engineering/Acq Logistics Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.065	0.070	0.000	0.080
RDT&E Articles Qty				
GCCS-13: Program Testing				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.507	0.728	0.710	0.722
RDT&E Articles Qty				

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems		
IAS MOD KIT: Software Engineering and Management Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.413	0.310	0.326	0.341
RDT&E Articles Qty				
IAS MOD KIT: Program, Logistic and Admin Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.812	1.000	0.000	1.009
RDT&E Articles Qty				
IBR: Engineering and technical service support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.200	0.087	0.000	0.000
RDT&E Articles Qty				
IBR: Contract and Program Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.604	0.000	0.000	0.000
RDT&E Articles Qty				
ISR: Program Management and Technical Support for the ISR Program.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.700	0.201	0.202
RDT&E Articles Qty				
ISR: Engineering Support for delivery of new technology initiatives to the Operating Forces.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.236	0.000	0.000
RDT&E Articles Qty				
ISR: System Engineering support for the ISR Testing and Training Center.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.243	0.300	0.134	0.307
RDT&E Articles Qty				
JSTARS: Engineering and technical support for development of software dissemination capability.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.116	0.050	0.214
RDT&E Articles Qty				
JSTARS: Future MTI capability into JSTARS ground elements.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.102	0.115	0.050	0.214
RDT&E Articles Qty				
JSTARS: MTIX Capability.				

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.100	0.116	0.000	0.000	
RDT&E Articles Qty					
JSTARS: CGS/JSWS Client Development.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.116	0.000	0.000	
RDT&E Articles Qty					
JSTARS: IPv6 integration research.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.890	0.710	1.310	0.506	
RDT&E Articles Qty					
JSIPS-TEG: Engineering, development, integration, test and security accreditation and integrated logistics support for Enhanced and TEG-RWS functionality.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.300	0.371	0.445	0.164	
RDT&E Articles Qty					
JSIPS-TEG: Development and integration of required upgrades/interfaces to accommodate emerging airborne imagery sensor.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.237	0.000	0.239	0.264	
RDT&E Articles Qty					
JSIPS-TEG: Program Management and Technical support for T&E of program refresh.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.076	0.130	0.083	0.094	
RDT&E Articles Qty					
JSIPS-TEG: Development of MTI/MTIX interfaces to include potential merger of current JSTARS/CGS capabilities					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.254	0.290	0.350	0.153	
RDT&E Articles Qty					
JSIPS-TEG: Development and integration of video capture and exploitation capability.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.400	0.183	0.260	0.000	
RDT&E Articles Qty					
JSIPS-TEG: Development and integration of mandated DCGS/DIB interfaces and communication architectures.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.094	0.346	0.116	
RDT&E Articles Qty					
JSIPS-TEG: Development of man-portable and reduced form-factor Common Data Link (CDL) capability.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.563	0.604	0.345	
RDT&E Articles Qty					
JSIPS-TEG: Engineering/technical management and Infrastructure/Team IMINT shared costs.					

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.155	0.127
RDT&E Articles Qty				
JSIPS-TEG: Development and integration of mandated Joint interoperability and architectures to include IPv6, GIG and others.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.190	0.210	0.214	0.216
RDT&E Articles Qty				
MSIDS: Program Management and technical support for product development of program hardware and software refresh.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.030	0.041	0.044	0.046
RDT&E Articles Qty				
MSIDS: Program Management and technical support for Technical and Evaluation of program refresh.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.162	1.511	1.100	0.845
RDT&E Articles Qty				
TCAC: Software development, integration and testing for TCAC with COE 4.X and future releases.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.450	0.209
RDT&E Articles Qty				
TCAC: Program Management Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.769	2.976	2.953	3.824
RDT&E Articles Qty				
TENCAP: Program support and management; evaluate national intelligence data systems for MAGTF applicability.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.746	0.897	0.608	0.135
RDT&E Articles Qty				
TENCAP: Technical assessments of emerging national data dissemination capabilities.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Qty				
TENCAP: Training and education efforts by providing the Fleet Marine Force with TENCAP simulation, visualization, and data receipt and dissemination capabilities.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.135	0.150	0.000
RDT&E Articles Qty				
TENCAP: Evaluate the utility of emerging exploitation, automated and manual target recognition and detection tools.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.280	0.322	0.318	0.318
RDT&E Articles Qty				
TPC: Integration of Hardware and Software of Spiral Development Support				

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.039	0.035	0.043	0.047
RDT&E Articles Qty				
TPC: Contractor Support for Integration and Re-engineering Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.235	1.299	0.257	0.259
RDT&E Articles Qty				
TPCS-MPC: EDM Design.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.180	0.000	0.250	0.200
RDT&E Articles Qty				
TPCS-MPC: System development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.071	0.000	0.050	0.050
RDT&E Articles Qty				
TPCS-MPC: Training development and test support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.432	1.700	0.500	0.502
RDT&E Articles Qty				
TPCS-MPC: Program support and management.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.402	0.500	0.535	0.000
RDT&E Articles Qty				
TPCS-MPC: Operational Test and Evaluation (OT&E).				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.700	0.703	0.706
RDT&E Articles Qty				
TRSS-PIP: Logistic and Admin support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.308	1.000	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Software development of HHPM and Low Cost Imager; Improved Air Delivered Sensor (IADS) II; Encoder Transmitter Unit (ETU); Windows 2000 migration; and RSMS ver 3.1 field verification/version 4.1 and 4.2.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.350	0.075	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Management support - MCSC				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.096	0.503	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Development of P3I Sensors.				

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	2.087	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Air Certification of Advanced Air Delivered Sensor (AADS) store.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.168	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Development of SMMS II.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	2.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Development of Urban Sensor Sets					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.422	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Support IOT&E and Increment II efforts.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.374	0.422	0.426	0.429	
RDT&E Articles Qty					
TROJAN SPIRIT: Engineering and Technical Support.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.700	0.000	0.000	0.000	
RDT&E Articles Qty					
DCGS-MC - USMC DCGS Integrated Backbone (DIB).					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.500	0.000	0.361	0.800	
RDT&E Articles Qty					
DCGS-MC - Research and Development and Integration efforts.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	3.601	2.376	1.188	1.578	
RDT&E Articles Qty					
DCGS-MC - Engineering and Technical Services.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	2.280	1.468	1.467	1.927	
RDT&E Articles Qty					
DCGS-MC - Design and Development of Hardware and Enterprise Services and test and development support to include Studies, analysis and evaluation.					
(U) Total \$	26.639	26.571	17.052	18.624	

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems				C2272 Intelligence C2 Systems							
(U) PROJECT CHANGE SUMMARY:	FY2006	FY2007	FY2008	FY2009								
(U) FY 2007 President's Budget:	26.619	26.672	22.059	19.010								
(U) Adjustments from the President's Budget:												
(U) Congressional Prog Reduction												
(U) Congressional Rescissions												
(U) Congressional Increases												
(U) Reprogrammings					-4.522							
(U) SBIR/STTR Transfer												
(U) Minor Affordability Adjustment	0.020	-0.101	-0.485	0.233								
(U) FY 2008 President's Budget:	26.639	26.571	17.052	18.624								
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		
PMC BLI 474700 Intel Support Eq TRSS-PIP	26.994	12.082	2.818	4.332	7.152	11.365	3.753	5.340	Cont	Cont		
PMC BLI 474700 Intel Support Eq CIHEP	4.298	14.501	5.076	6.106	6.681	8.113	6.151	5.698	Cont	Cont		
PMC BLI 474700 Intel Support Eq DCGSI	0.000	0.000	0.532	0.616	6.246	0.577	0.593	0.610	Cont	Cont		
PMC BLI 474700 Intel Support Eq JSIPS - TEG	4.103	1.367	1.077	1.363	1.826	0.301	0.309	0.317	0.000	10.663		
PMC BLI 474700 Intel Support Eq TPCS	7.505	9.742	1.157	0.303	0.875	1.944	0.000	0.000	0.000	21.526		
PMC BLI 474700 Intel Support Eq MSIDS	7.080	10.525	1.663	1.957	3.783	3.814	1.854	1.655	Cont	Cont		
PMC BLI 474700 Intel Support Eq IBR	0.582	3.901	1.057	0.000	1.077	1.096	0.449	0.461	Cont	Cont		
PMC BLI 474700 Intel Support Eq TPC	2.250	10.560	3.009	2.790	1.007	8.646	4.114	5.408	0.000	37.784		
PMC BLI 474700 Intel Support Eq RREP	3.923	3.234	2.007	6.698	1.083	1.301	1.389	1.427	Cont	Cont		
PMC BLI 474700 Intel Support Eq TSCM	1.140	0.000	1.409	0.000	1.410	0.000	1.539	0.000	Cont	Cont		
PMC BLI 474700 Intel Support Eq TROJAN SPIR	7.156	7.094	0.212	0.560	0.109	0.114	0.116	0.120	Cont	Cont		
PMC BLI 474700 Intel Support Eq JWICS	0.708	0.781	0.555	0.828	0.638	0.620	0.896	0.921	0.867	6.814		
PMC BLI 474700 Intel Support Eq TCVS	13.534	5.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.134		
PMC BLI 465200 Mod Kits IAS MOD Kit	7.372	16.847	2.635	0.964	2.725	1.729	2.320	1.308	Cont	Cont		
PMC BLI 465200 Mod Kit TCAC	0.869	3.904	0.951	1.135	0.000	0.776	0.000	0.000	Cont	Cont		
PMC BLI 465200 Mod Kit JSTARS	4.235	1.624	2.746	1.636	1.497	2.511	2.752	4.893	Cont	Cont		
PMC BLI 465200 Mod Kit TERPES	2.154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.154		
PMC BLI 465200 Mod Kit ISR	4.980	12.993	3.260	3.188	3.316	4.907	4.811	4.945	Cont	Cont		

UNCLASSIFIED

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

0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME

C2272 Intelligence C2 Systems

(U) Related RDT&E:

(U) PE 0301301L (Department of Defense Intelligence and Information Systems/Military Intelligence Integrated Data System/Integrated Data Base I and II)

(U) PE 0604270A (Intelligence and Electronic Warfare Common Sensor (IEWCS), TACJAM-A)

(U) PE 0305885G (Tactical Cryptologic Program)

(U) PE 0603730A (Tactical Surveillance System - Advanced Development), Army TENCAP, Project D560

(U) PE 0603766A (Tactical Electronic Surveillance System - Advanced Development), Army TENCAP, Project D907

(U) PE 0604740A (Tactical Surveillance System - Engineering Development), OSD TENCAP, Project D662

(U) PE 0902398M (United States Special Operations Command), Chariot Program

(U) PE 0605867N (SEW Surveillance/Reconnaissance Support), Project Z1034

(U) ACQUISITION STRATEGY JSTARS: JSTARS will utilize ongoing Army and Navy JSTARS contracts for development of client software, future CDL, MTI and MTI Sensor capabilities. IPv6 research will be conducted in conjunction with other services and agencies. Incremental Development Plan (IDP) efforts will continue to the JSTARS software baseline. SPAWAR-Charleston, SC will oversee the integration and testing of these development efforts, ensuring USMC Command, Control, Communications, Computers and Intelligence (C4I) architecture capability. On-site contractor logistical support will be provided through the General Dynamics Intelligence, Information Command and Control, Equipment and Enhancements (ICE2) Equipment Logistics Support Contract out of Warner-Robbins Air Force Base, GA. Post Deployment Software Support (PDSS) will be provided through the Communications-Electronics Command (CECOM), Ft Monmouth, NJ and SPAWAR-Charleston, SC. Surveillance Control Data Link (SCDL) antenna and Ground Data Terminal (GDT) support will be through Cubic Defense Systems, San Diego, CA, via a General Dynamics support contract.

(U) ACQUISITION STRATEGY JSIPS TEG: The TEG Program Office leverages the advantages of its multi-service common software baseline and inherent Joint service interoperability. Development, integration, interoperability, security certification and accreditation and acquisition is divided between three prime contractors: Northrop Grumman Electronic Systems, Baltimore, MD (NGB) (through a classified contract); Space and Naval Warfare Systems Center, Charleston, SC (SSCC), and MTC Services Corporation. An incremental refresh is currently ongoing for the TEG/RWS. A subsequent refresh will occur in FY08 for the TEG-M in order to keep systems modern and modular to meet emerging technologies.

(U) ACQUISITION STRATEGY TPCS: TPCS, the ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. These technology insertions and product improvements will ensure the Radio Battalions maintain cutting edge technologies and collection capabilities.

(U) ACQUISITION STRATEGY TRSS: The TRSS are typically Non-Developmental Item (NDI) integration efforts, making maximum use of the efforts of hardware and software initially developed by other DoD organizations and programs. The initial phases of each Increments are cost-plus fixed-fee efforts, while the production phase, which encompasses the production, fielding, training and initial support of the systems, are firm-fixed price efforts.

(U) ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.

(U) ACQUISITION STRATEGY CIHEP: CIHEP will use existing 8A contractor, Action Systems, the developer of the original system for test, evaluation and integration of planned refresh items for the ADP and Imagery Module. US Army IMA will be used for test, evaluation, and integration of planned refresh items for the TSS, Audio and Miscellaneous modules. CIHEP will coordinate acquisitions of communications equipment with PM Comm for planned upgrades to the Communications Module.

(U) ACQUISITION STRATEGY MSIDS: A complete refresh of systems commenced in 3QTR FY02 and reached Full Operational Capability (FOC) in 2QTR FY03. Subsequent "increment refreshes" are under way in order to keep the systems from becoming unreliable and unsupported. The increment refresh approach will effectively leverage technological advances. Each increment of upgrades will refresh 1/3 of the fielded components.

UNCLASSIFIED

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 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
<p>(U) ACQUISITION STRATEGY GCCS-I3: This program promotes and ensures interoperability among USMC Intelligence Systems. Engineering and technical support is provided to PM Intel systems integration efforts for incorporation of the COE and GCCS-I3 software baseline. An Intelligence Integration Facility has been established at the Integrated Team Solution Facility. As such, this facility will be used as the hub for the entire integration effort of the GCCS-I3 initiative.</p> <p>(U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.</p> <p>(U) ACQUISITION STRATEGY IBR: In house contracts will be used to conduct engineering studies and test and evaluation activities associated with the Marine Corps implementation of the Integrated Broadcast Service, Common Message Format, ENTR integration and test and evaluation.</p> <p>(U) ACQUISITION STRATEGY TPC: The TPC program will reach Full Operational Capability in FY06 with the fielding of TPC to the Marine Corp Intelligence Activity. The TPC will refresh and upgrade the existing TPC equipment as technology advances. As new technology emerges, the current fielded systems will need incremental hardware and software refreshes to sustain operational requirements and to meet the ORD requirement of compliance with the NGA US Imagery and Geospatial Information System. The TPC program uses existing Government contracts for hardware/software development and integration. Full-time contractor support is provided through the Commercial Enterprise Omnibus Support Services (CEOs) contract. Additional full time engineering and integration support is provided by Northrop Grumman Information Technology TASC through the Information Technology Omnibus Procurement II (ITOP II) contract under the auspices of the MCSC Information Technology Modernization 2000 (ITM2K) Project Office. Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.</p> <p>(U) ACQUISITION STRATEGY ISR: This program seeks to support a wide range of technology solutions based on the requests received from the Operating Forces and/or PM Intelligence Program of Record. The request must require solution evaluation beyond merely acquisition to be recommended as an ISR candidate. Each request will be validated by the ISR team and approved by the Project Officer and PM Intel before solution evaluation begins. The ISR program will use COTS/GOTS/NDI solutions to the greatest extent possible.</p> <p>(U) ACQUISITION STRATEGY IAS: The IAS program uses existing Government contracts for hardware and software development and integration. The system is comprised primarily of Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment. The IAS FoS utilizes an evolutionary strategy to ensure periodic incorporation of state-of-the-art technology that meets both current and future Marine Corps intelligence requirements while maintaining system readiness and reliability.</p> <p>(U) ACQUISITION STRATEGY TROJAN SPIRIT: Procure and continuously improve USMC TROJAN SPIRIT systems to meet evolving Marine Corps operational needs while maintaining interoperability with the Army TROJAN Network and maintaining, as closely as practical, configuration common to the Army TROJAN SPIRIT systems.</p> <p>(U) ACQUISITION STRATEGY DCGS-MC: The Marine Corps DCGS-MC project officer will leverage off of the USAF DCGS 10.2 Research, Development Test and Evaluation (RDT&E) effort and focus on the development of the DCGS Integrated Backbone (DIB) for the DCGS-MC. Additionally, the DCGS-MC will leverage off of MAGTF Legacy system DIB compliancy efforts.</p>		

UNCLASSIFIED

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

0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME

C2272 Intelligence C2 Systems

(U) E. MAJOR PERFORMERS:

MANPACK SIDS (MP SIDS)

- FY 06 Navy Systems Management Activity (MTC, Stafford, VA). Provide funds for engineering and program management support.
- FY 07 Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for engineering and program management support.
- FY 08 Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for engineering and program management support.
- FY 09 Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for engineering and program management support.

INTELLIGENCE BROADCAST RECEIVER (IBR)

- FY 06 SPAWAR, Provide engineering support for the ISR Testing and Training Center NSMA (MTC), Stafford, VA. Provide contract and program support.
- FY 07 SPAWAR, Provide engineering support for the ISR Testing and Training Center NSMA (MTC), Stafford, VA. Provide contract and program support.
- FY 09 SPAWAR, Provide engineering support for the ISR Testing and Training Center

INTELLIGENCE ANALYSIS SYSTEM (IAS)

- FY06 SPAWAR, CHARLESTON, S.C. Provide funds for development, upgrades, integration, research and analysis of hardware for system refresh. Navy Systems Management Activity (MTC, Stafford, VA). Provide funds for Integration and hardware upgrade study.
- FY07 SPAWAR, CHARLESTON, S.C. Continue to provide funds for development, upgrades, integration, research and analysis of hardware for system refresh. Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for Integration and hardware upgrade study.
- FY08 SPAWAR, CHARLESTON, S.C. Continue to provide funds for development, upgrades, integration, research and analysis of hardware for system refresh. Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for Integration and hardware upgrade study.
- FY09 SPAWAR, CHARLESTON, S.C. Continue to provide funds for development, upgrades, integration, research and analysis of hardware for system refresh. Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for Integration and hardware upgrade study.

INTELLIGENCE SYSTEM READINESS (ISR)

- FY06 SPAWAR, CHARLESTON, S.C. Provide funds for engineering, testing, evaluation and training support.
- FY07 SPAWAR, CHARLESTON, S.C. Continue to provide funds for engineering, testing, evaluation and training support.
- FY08 SPAWAR, CHARLESTON, S.C. Continue to provide funds for engineering, testing, evaluation and training support.
- FY09 SPAWAR, CHARLESTON, S.C. Continue to provide funds for engineering, testing, evaluation and training support.

UNCLASSIFIED

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

0206313M Marine Corps Communication Systems

C2272 Intelligence C2 Systems

TEAM PORTABLE COLLECTION SYSTEM - MULTI-PLATFORM CAPABLE (TPCS-MPC)

- FY06 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM.
MCOTEA. Provide Operational testing of the TPCS-MPC Ground/Team system.
NSMA (MTC), Stafford, VA, Provide funds for program management and engineering support services
- FY07 SPAWAR, CHARLESTON, S.C. Continue to provide funds for prime systems integrator for TPCS-MPC EDM.
MCOTEA. Provide Operational testing of the TPCS-MPC Ground/Team system.
NSMA (MTC), Stafford, VA, Continue to provide funds for program management and engineering support services
- FY08 SPAWAR, CHARLESTON, S.C. Continue to provide funds for prime systems integrator for TPCS-MPC EDM.
MCOTEA. Provide Operational testing of the TPCS-MPC Ground/Team system.
NSMA (MTC), Stafford, VA, Continue to provide funds for program management and engineering support services
- FY09 SPAWAR, CHARLESTON, S.C. Continue to provide funds for prime systems integrator for TPCS-MPC EDM.
NSMA (MTC), Stafford, VA, Continue to provide funds for program management and engineering support services

GLOBAL COMMAND AND CONTROL SYSTEM INTEGRATED IMAGERY AND INTELLIGENCE (GCCS I3)

- FY 06 Navy Systems Management Activity (NSMA), MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services.
SPAWAR, CHARLESTON, SC. Development, upgrades, integration, research and analysis for system refresh.
- FY 07 Navy Systems Management Activity (NSMA),MTC Services Corporation (MTC) Stafford, VA. Continue to provide funds for Engineering and Program support services.
SPAWAR, Charleston, SC. Continue development, upgrades, integration, research and analysis for system refresh.
- FY 08 Navy Systems Management Activity (NSMA),MTC Services Corporation (MTC) Stafford, VA. Continue to provide funds for Engineering and Program support services.
SPAWAR, CHARLESTON, SC. Continue development, upgrades, integration, research and analysis for system refresh.
- FY 09 Navy Systems Management Activity (NSMA),MTC Services Corporation (MTC) Stafford, VA. Continue to provide funds for Engineering and Program support services.
SPAWAR, Charleston, SC. Continue development, upgrades, integration, research and analysis for system refresh.

TOPOGRAPHIC PRODUCTION CAPABILITY (TPC)

- FY 06 MARCORSSYSCOM, (MCSC), Quantico, VA Provide funds to TBD for continues integration and re-engineering support in support of moderinzation and technology refresh.
NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Provide funds for engineering & technical management support.
- FY 07 MARCORSSYSCOM, (MCSC), Quantico, VA Continue to provide funds to TBD for continues integration and re-engineering support in support of moderinzation and technology refresh.
NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support.
- FY 08 MARCORSSYSCOM, (MCSC), Quantico, VA Continue to provide funds to TBD for continues integration and re-engineering support in support of moderinzation and technology refresh.
NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support.
- FY 09 MARCORSSYSCOM, (MCSC), Quantico, VA Continue to provide funds to TBD for continues integration and re-engineering support in support of moderinzation and technology refresh.
NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support.

UNCLASSIFIED

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 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
JOINT SURVEILLANCE TARGET ATTACK RADAR (JSTARS)		
FY 06 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet development Provide engineering and technical support for development of software dissemination capability.		Protocol Version 6 (IPv6) research and NSMA, VA,
FY 07 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet development.		Protocol Version 6 (IPv6) research and
FY 08 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet development Provide engineering and technical support for development of software dissemination capability.		Protocol Version 6 (IPv6) research and NSMA, VA,
FY 09 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet development. Provide engineering and technical support for development of software dissemination capability.		Protocol Version 6 (IPv6) research and NSMA, VA,
JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG)		
FY06 ARMY SPACE PROGRAM OFFICE, Washington, DC. Classified contract. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support.		
FY07 SPAWAR, Charleston, SC. Continue to provide funds for integration, engineering, program management & contractual support. ARMY SPACE PROGRAM OFFICE, Washington, DC. Classified contract. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support.		
FY08 SPAWAR, Charleston, SC. Continue to provide funds for integration, engineering, program management & contractual support. ARMY SPACE PROGRAM OFFICE, Washington, DC. Classified contract. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support. MARCORSYSCOM, (MCSC), Quantico, VA (CEOSS) Continue to provide funds for Program and technical support.		
FY09 SPAWAR, Charleston, SC. Continue to provide funds for integration, engineering, program management & contractual support. ARMY SPACE PROGRAM OFFICE, Washington, DC. Classified contract. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support. MARCORSYSCOM, (MCSC), Quantico, VA (CEOSS) Continue to provide funds for Program and technical support.		
TACTICAL CONTROL AND ANALYSIS CENTER (TCAC)		
FY 06 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA) (MTC, Stafford, VA) Software development, integration and testing for TCAC with COE 4.X and future releases. Provide program management support.		NAWC,
FY 07 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA) (MTC, Stafford, VA) Software development, integration and testing for TCAC with COE 4.X and future releases. Provide program management support.		NAWC,
FY 08 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA) (MTC, Stafford, VA) Software development, integration and testing for TCAC with COE 4.X and future releases. Provide program management support.		NAWC,
FY 09 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA) (MTC, Stafford, VA) Software development, integration and testing for TCAC with COE 4.X and future releases. Provide program management support.		NAWC,

UNCLASSIFIED

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

0206313M Marine Corps Communication Systems

C2272 Intelligence C2 Systems

TACTICAL REMOTE SENSOR SYSTEM (TRSS)

FY06 NAWCWD.

MARCORSYSCOM, Quantico, VA. Funds provided to CEOss for ALA and Engineering support.

OCEAN SYSTEMS ENGINEERING CORP. (OSEC), San Diego, CA. Funds provided software development AADS and UGMS.

FY07 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), Crystal City, VA. Continue to provide for engineering and integration support.

MARCORSYSCOM, Quantico, VA. Continue to provided Engineering support.

OCEAN SYSTEMS ENGINEERING CORP. (OSEC), San Diego, CA. Continue to provided for software development of Increment III efforts MCOTEA

FY08 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), Crystal City, VA. Continue to provided for engineering and integration support.

FY09 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), Crystal City, VA. Continue to provided for engineering and integration support.

COUNTERINTELLIGENCE AND HUMAN INTELLIGENCE (HUMINT) EQUIPMENT PROGRAM (CIHEP)

FY06/FY07 MARCORSYSCOM (MCSC), Quantico, VA. Provide program management support for tech refresh and upgrade of program hardware and software.

FY06/FY07/FY08/FY09 NSMA, MTC, Stafford, VA - Provided for Pgm Mgmt support for tech refresh and upgrade of program hardware and software.

FY06/FY07 ACTION SYSTEMS, Las Cruces, NM. Provide engineering, integration and technical support for tech refresh and upgrade of program hardware and software.

TROJAN SPIRIT

FY06 NSMA, MTC Stafford, VA - Provide funds for P3I prototype, technical and Engineering support to include EOA, DT and OT.

FY07 NSMA, MTC Stafford, VA - Continue to provide funds for P3I prototype, technical and Engineering support.

FY08 NSMA, MTC Stafford, VA - Continue to provide funds for P3I prototype, technical and Engineering support for P3I prototype, technical and Engineering support to include EOA, DT and OT.

FY09 NSMA, MTC Stafford, VA - Continue to provide funds for P3I prototype, technical and Engineering support.

DCGS-I

FY06 USAF 10.2 Contract. Research and development of DCGS Integrated Backbone (DIB) software and integration into Marine Corps legacy systems.

NSMA, MTC, Stafford, VA Integrated Teams Solution Facility, Stafford, VA Provide Engineering & technical services, studies, analysis and evaluation for DIB integration, and integration support. FY07

NSMA, MTC, Stafford, VA Integrated Teams Solution Facility, Stafford, VA Continue to provide Engineering & technical services, studies, analysis and evaluation for DIB integration, and integration support.

FY08 NSMA, MTC, Stafford, VA Integrated Teams Solution Facility, Stafford, VA Continue to provide Engineering & technical services, studies, analysis and evaluation for DIB integration, and integration support.

FY09 NSMA, MTC, Stafford, VA Integrated Teams Solution Facility, Stafford, VA Continue to provide Engineering & technical services, studies, analysis and evaluation for DIB integration,

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			0206313M Marine Corps Communications Sys					C2272 Intelligence C2 Systems						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
TPC	RCP	MCSC	1.280	0.280	12/05	0.322	12/06	0.318	12/07	0.318	12/08	Cont	Cont	
TPC	RCP	NSMA (MTC)	0.000	0.039	12/05	0.035	12/06	0.043	12/07	0.047	12/08	Cont	Cont	
TPCS	RCP	NSMA (MTC)	4.901	1.328	02/06	1.700	02/07	0.500	12/07	0.502	12/08	Cont	Cont	
IAS MOD KIT	RC/WR	SPAWAR Charleston	1.006	0.507	01/06	0.627	01/07	0.600	01/08	0.602	01/09	Cont	Cont	
IAS MOD KIT	RCP	NSMA (MTC)	0.858	0.413	03/06	0.411	01/07	0.436	01/08	0.461	01/09	Cont	Cont	
GCCS I3	RCP	NSMA (MTC)	1.853	0.420	02/06	0.440	02/07	0.044	02/08	0.434	02/09	Cont	Cont	
GCCS I3	RCP	SPAWAR Charleston	0.630	0.800	12/05	0.978	12/06	0.000	12/07	0.912	12/08	Cont	Cont	
GCCS I3	WR	SPAWAR Charleston	0.000	0.110	12/05	0.100	12/06	0.000	12/07	0.200	12/08	Cont	Cont	
TCAC	RCP	NSMA (MTC)	1.675	0.528	01/06	1.136	12/06	1.107	12/07	0.829	12/08	Cont	Cont	
TCAC	RCP	MCSC	0.000	0.035	05/06	0.050	11/06	0.218	11/07	0.050	11/08	Cont	Cont	
TPCS	MPR	MCLB	0.000	0.000		0.000		0.000		0.050	11/08	Cont	Cont	
IBR	WR	SPAWAR	0.109	0.726		0.000				0.500		Cont	Cont	
IBR	RCP	NSMA (MTC)	0.000	0.203	12/05	0.087	12/06			0.509		Cont	Cont	
ISR	WR	SPAWAR, Charleston	0.000	0.604	03/06	0.936	01/07	0.201	01/08	0.202	01/09	Cont	Cont	
JSTARS	RCP	MCSC	0.000	0.101	03/06							0.000	0.101	
Subtotal Support			15.546	6.094		6.822		3.467		5.616		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
TCAC	REAL	MCOTEA	0.000	0.035	01/06	0.025	11/06	0.025	11/07	0.025	11/08			
TCAC	MIPR	DIA	0.000	0.358	05/06	0.000		0.000		0.000				
GCCS I3	MPR	JITC	0.064	0.065	10/05	0.070	10/06	0.000	10/07	0.080	10/08	0.000	0.279	
TRSS-PIP	RCP	MCOTEA	0.000	0.000		0.422	01/07					0.000	0.422	
TPCS	MIPR	MCOTEA	0.348	0.289	02/06	0.500	02/07	0.585	02/08			Cont	Cont	
TPCS	MIPR	ABERDEEN	0.000	0.070	02/06	0.000						Cont	Cont	
TPCS	MIPR	USAOTC	0.000	0.402	02/06	0.000						Cont	Cont	
JSIPS	MIPR	ABERDEEN	0.000	0.071	02/06	0.000		0.115	02/08	0.127	02/09	Cont	Cont	
IBR	RCP	NSWC	0.000	0.083	05/06	1.000						Cont	Cont	
Subtotal T&E				1.373		2.017		0.725		0.232		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
DCGS	RCP	MCSC	0.000	2.280	03/06	0.000		0.000		0.000				
TCAC	WR	NAWC	0.000	0.206	03/06	0.300	11/06	0.200	11/07	0.150	11/08			
Subtotal Management				2.486		0.300		0.200		0.150		Cont	Cont	
Remarks:														
Total Cost				26.639		26.571		17.052		18.624		Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail

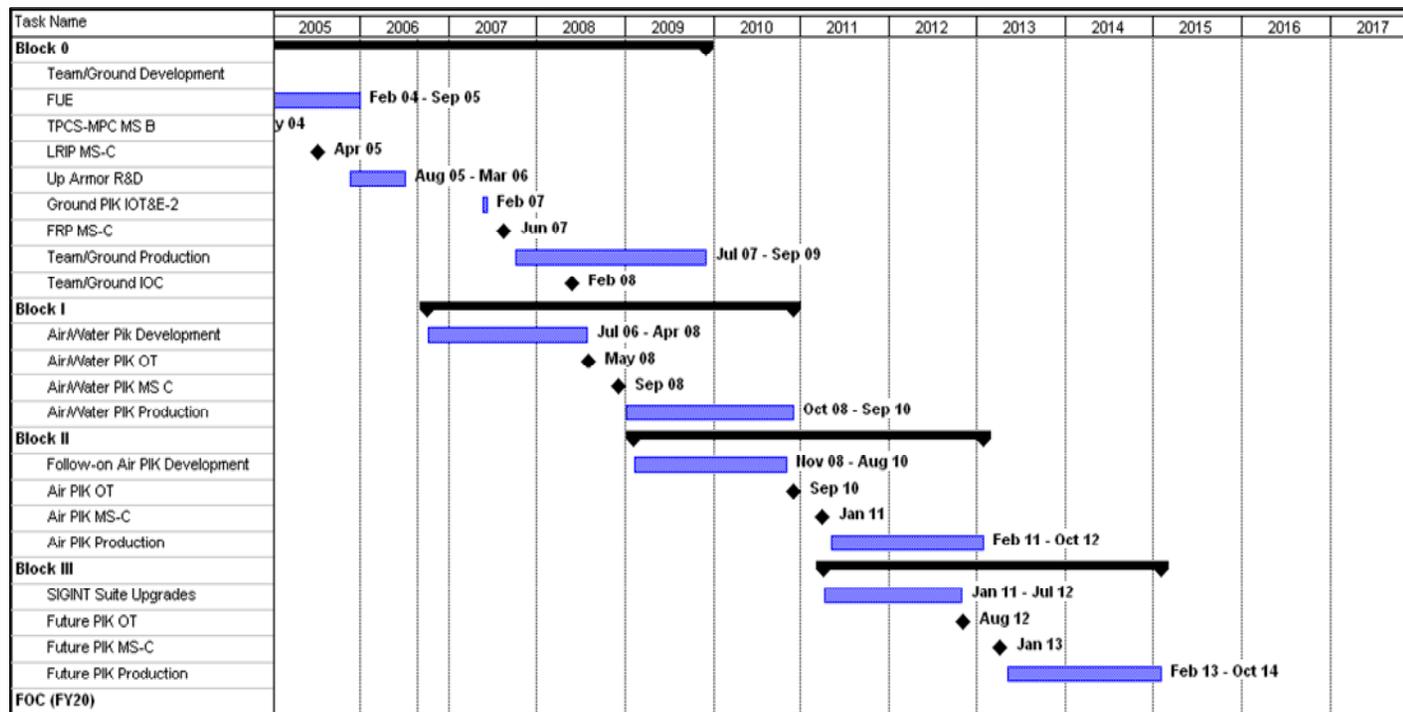
DATE: February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2272 Intelligence C2 Systems

TPCS



Program Funding Summary
(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	2.320	3.499	1.592	1.011	1.554	1.461	1.657	1.701	Cont	Cont
(U) PMC BLI 474700 Intel Suppor TPCS	7.505	9.742	1.158	0.303	0.874	1.944	0.000	0.000	0.000	21.526

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2272 Intelligence C2 Systems

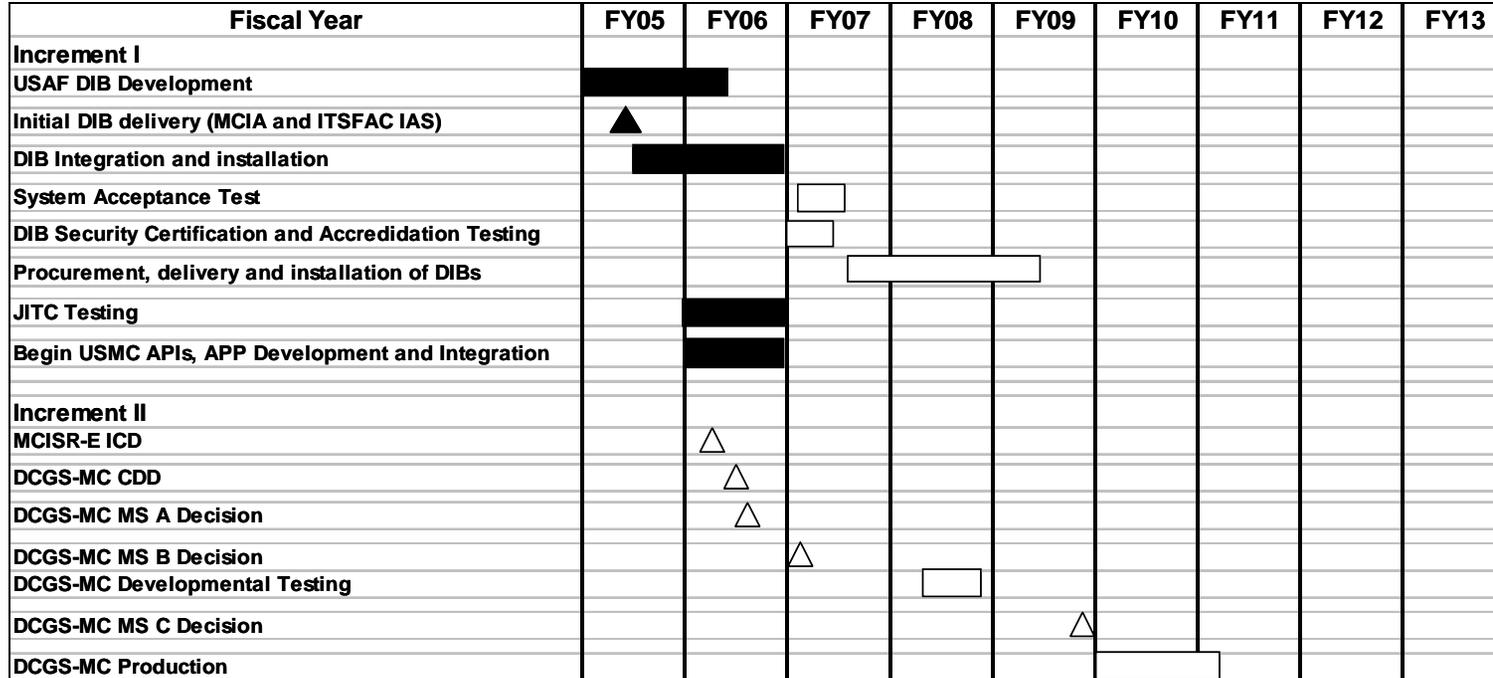
TPCS-MPC SCHEDULE DETAIL	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
MS B EDM Dev and Demo	3Q									
DT/FUE	1Q---3Q									
IOT & E	3Q									
MS C LRIP		2Q								
Procure Long Lead Items			3Q							
Ground/Team PIK IOT&E-2				2Q						
Team/Ground MS-C FRP				3Q						
Ground/Team PIK IOC					2Q					
Air/Water PIK OT					3Q					
Air/Water PIK MS C					4Q					
Air/Water PIK IOC						1Q				
AIR PIK OT							4Q			
AIR PIK MS-C							2Q			
FUTURE PIK OT									4Q	
FUTURE PIK MS-C										2Q
FUTURE PIK IOC						1Q				2Q

Exhibit R-4/4a Schedule Profile/Detail

DATE: February 2007

APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
---	---	--

DCGS MILESTONE CHART



<u>Line Item No. & Name</u> <u>(APPN, BLI #, NOMEN)</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) RDT&E,N	7.081	3.844	3.016	4.305	4.475	4.460	3.510	3.606	Cont	Cont
(U) PMC BLI 474700 Intell Supp	0.000	0.000	0.532	0.616	6.246	0.577	0.593	0.610	Cont	Cont

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems

DCGS	2005	2006	2007	2008	2009	2010	2011	2012	2013
Increment I									
USAF DIB Development	1Q-----	2Q							
Initial DIB Delivery	2Q								
DIB Integration and Installation	2Q-----	-----4Q							
System Acceptance Test			2Q						
DIB SCAT			1Q-2Q						
DIB Procurement, Delivery & Fielding			3Q-----						
JITC Testing		1Q----4Q							
USMC APIs APP Dev		1Q----4Q							
Increment II									
MCISR-E ICD		2Q							
DCGS-MC CDD		3Q							
DCGS-MC MS A Decision		3Q							
DCGS-MC MS B Decision			1Q						
DCGS-MC Development Testing				2Q----4Q					
DCGS-MC MS C Decision					4Q				

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 Systems Development		0206313M Marine Corps Communications Systems				C2273 Air Operations C2 Systems			
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY2012	FY2013
Project Cost		80.884	47.098	43.238	27.825	22.737	11.501	8.491	6.449
RDT&E Articles Qty									
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(U) Air Operations Command & Control C2 coordinates and plans Navy and Marine air combat operations and interfaces with joint and combined forces air operations. It also interfaces with fire support C2. The systems in this project are used to detect aircraft and missiles, process the detected information, deliver the processed information to the Advanced Tactical Air Command Central (ATACC), and conduct the air battle.</p> <p>The Common Aviation Command and Control System (CAC2S) will provide a common baseline of equipment, computer hardware, and software required to perform the mission of the Marine Air Command and Control System (MACCS). CAC2S will provide a capability that allows operators to integrate Marine aviation into joint and combined air/ground operations. CAC2S will be an open architecture system. CAC2S will provide the software integration to ground C2 via Command and Control Personal Computer (C2PC) functionality in order to improve air and ground situational awareness, blue force tracking and reduce the potential for fratricide.</p> <p>The Composite Tracking Network (CTN) will provide the Marine Air Ground Task Force MAGTF Commander a ground based sensor netting solution that significantly improves situational awareness by correlating sensor measurement data (target position, speed, heading, Identification Friend and Foe (IFF), etc.) from local and remote radars in the Cooperative Engagement Capability (CEC) network, which is then provided to the warfighter in the form of composite, real-time, air surveillance tracks.</p> <p>The Joint Combat Identification Evaluation Team (JCIET) is a superb opportunity to conduct quality assurance testing of service's systems operating in a Joint environment. It conducts assessments in a number of venues including : Military Operations in Urban Terrain (MOUT) exercises, Advanced Concept Technology Demos (ACTD), Joint Training exercises, Combined Armed Training Exercises (CAXs) and Weapons Tactics Instruction Events (WTIs). Its mission is to improve Tactics, Techniques and Procedures (TTP) across all Combat Identification mission areas. (It is not an acquisition program; therefore it does not have specific milestone dates.)</p> <p>The Marine Air Command and Control System (MACCS) Sustainment consists of various command and control agencies designed to provide the Aviation Combat Element (ACE) commander with the ability to monitor, supervise and influence the application of Marine aviation assets in support of MAGTF operations. The MACCS Sustainment provides funding to keep these fielded systems ready, relevant and capable until their functions are replaced by the Common Aviation Command and Control System (CAC2S).</p> <p>Single Integrated Air Picture (SIAP) is the product of fused, common, continual, unambiguous tracks of airborne objects within the surveillance area." The SIAP Systems Engineer Organization (JSSEO) will identify the most effective and efficient means to achieve a SIAP that satisfies the warfighter needs. The Joint Single Integrated Air Picture Systems Engineering Organization (JSSEO) is not limited to just material solutions in this effort; all aspects will be considered to produce the SIAP, including tactics, techniques and procedures and changes to Service operations.</p> <p>Theater Battle Management Core Systems (TBMCS) provides the commander the automated tools necessary to generate, disseminate, and execute the Air Tasking Order (ATO), as mandated by the Chairman, Joint Chiefs of Staff in July 1993. It is an evolutionary acquisition, allowing for the rapid development/fielding of hardware and software to meet today's rapidly advancing technology. It is fielded to all four Marine Tactical Air Command Squadrons (MTACS) and the supporting establishment.</p>									

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 Systems Development	0206313M Marine Corps Communications Systems	C2273 Air Operations C2 Systems			
<p>Battlefield Target Identification Device (BTID) in FY08 and beyond - will be a cooperative battlefield target identification device that employs encrypted, Ka band, millimeter wave, question and answer technology. It will consist of interrogator and transponder antennae, transceiver, and communications/electrical interface unit. It will be fielded as two variants: interrogator/transponder system for Expeditionary Fighting Vehicle (EFVs), Light Amphibious Vehicles (LAVs), and M1A1s; and transponder-only system for combat support and combat service support vehicles. When fielded, mounted weapon systems will have the capability to identify targets as friendly or unknown, at ranges to 6 km, before engaging them. They and all other designated vehicles will also possess the capability to rapidly identify themselves as friendly to weapon systems equipped with comparable systems prior to being engaged. As a result, incidents of fratricide and collateral damage will decline, while the range at which targets may be engaged without fear of misidentification will increase dramatically. The system will be interoperable with Joint, Allied, and Coalition forces' cooperative target identification systems.</p> <p>Small Unit Remote Scouting System (SURSS) - The SURSS program is a family of small tactical sensors for the Marine Company and Battalion. When fully fielded it will consist of an aerial sensor, hand-emplaced and munitions sensor controlled by a common ground control station. The current budget provides funding for the aerial sensor. Funding for FY06 and FY07 SURSS resides in C1901 P.E. 0206623M.</p> <p>The Combat Operations Center (COC) is a deployable, self-contained, and centralized facility which provides digital, shared Command and Control/Situational Awareness functionalities to enhance the Common Operational Picture (COP) for the Command Element, Ground Command Element, Air Combat Element, and Combat Service Support Element. It is a commercial-off-the-shelf based, total turn-key, integrated hardware solution using unit provided radios, legacy, re-hosted tactical data systems, and available prime movers that provides the Marine mobility, modularity and scalability.</p> <p>This is a combined Navy (PE#0207257N) and Marine Corps (PE#0206313M) budget submission. The Tier II/UAS is a new start program that will provide persistent, Intelligence, Surveillance, and Reconnaissance (ISR) support for tactical level maneuver decisions and unit level force defense/force protection for Navy ships and Marine Corps land forces. This system will fill the ISR capability shortfalls identified by the Navy Small Tactical Unmanned Aircraft System (STUAS) and Marine Corps Tier II UAS efforts. Consisting of three air vehicles, one ground control station, three payloads, and associated launch, recovery and support equipment this system will support the Navy missions including building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and support of Navy units operating from sea/shore in the GWOT and the Marine Corps close range (<50 nautical miles (nm)) UAS enabling enhanced decision-making and improved integration with ground schemes of maneuver. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE# 0207257N.</p> <p>Theater Battle Management Core Systems (TBMCS) is the Chairman, Joint Chiefs of Staff mandated air war planning tool for the generation, dissemination and execution of the Air Tasking Order/Airspace Control Order (ATO/ACO). It is the primary Air Command and Control (C2) tool utilized within the joint theater of operations.</p>					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		3.963	4.100	4.100	4.100
RDT&E Articles Qty					
CAC2S: Program management support.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		10.385	7.562	8.019	1.131
RDT&E Articles Qty					
CAC2S: System Development and Demonstration (SDD). Engineering Development Model (EDM) hardware and software development, design of host processing system, and conduct software integration of Joint mandated applications, developmental testing and evaluation and baseline stabilization.					

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 Systems Development	0206313M Marine Corps Communications Systems		C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	32.012	12.109	5.112	4.168
RDT&E Articles Qty				
CAC2S: System development, Government Furnished Equipment (GFE), and testing in accordance with continued sensor interface/integration, communications interface/interoperability development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.289	0.000	0.000	0.000
RDT&E Articles Qty				
JCIET: Logistics support for JCIET exercise. Funding for this program in FY07 and beyond is found in Project C2278 within this PE.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.856	0.000	0.000	0.000
RDT&E Articles Qty				
JCIET: Data and analysis for exercise. Funding for this program in FY07 and beyond is found in Project C2278 within this PE.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.025	0.000	0.000	0.000
RDT&E Articles Qty				
JCIET: Program management support. Funding for this program in FY07 and beyond is found in Project C2278 with this PE.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.926	0.192	0.000	0.000
RDT&E Articles Qty				
CTN: Engineering Development Model (EDM) hardware and software development and support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.462	0.590	3.450	0.000
RDT&E Articles Qty				
CTN: System and software development. Interface design development for CTN interfaces to Common Aviation Command and Control System (CAC2S) and the AN/TPS-59 long range radar and G/ATOR.				
Accomplishment/Effort Subtotal Cost	0.703	0.712	0.770	0.600
RDT&E Articles Qty				
CTN: Testing and Evaluation: Developmental Testing, Operational assessment, and Interoperability Test and Evaluation (IOT&E) support. Certification of interfaces.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.588	0.755	1.206	0.913
RDT&E Articles Qty				
CTN: Program management support.				

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 Systems Development	0206313M Marine Corps Communications Systems		C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.586	0.000	0.000	0.000
RDT&E Articles Qty				
COMMAND POST/DERF CRITICAL INFRA: VTC Coop Engineering.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	3.341	2.960	2.552	1.914
RDT&E Articles Qty				
MACCS SUSTAINMENT: Hardware obsolescence upgrades for the TAOM, SAAWF, TIU, MCIU, ADCP, CIS and CDLS.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	3.315	1.795	2.518	1.932
RDT&E Articles Qty				
MACCS SUSTAINMENT: Planned software sustainment for the TAOM, ADCP and CDLS.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	14.503	10.442	0.000	0.000
RDT&E Articles Qty				
SIAP: Service System Engineering support to Joint SIAP System Engineering Organization.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.841	1.300	0.000	0.000
RDT&E Articles Qty				
SIAP: Engineering and analysis for SIAP system engineer Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.200	0.325	0.329	0.334
RDT&E Articles Qty				
TBMCS: USMC TBMCS development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.100	0.191	0.196	0.187
RDT&E Articles Qty				
TBMCS: MCTSSA TBMCS software support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.100	0.225	0.228	0.230
RDT&E Articles Qty				
TBMCS: Program management support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.061	0.077	0.075	0.077
RDT&E Articles Qty				
TBMCS: Test and Evaluation for TBMCS Upgrades Joint Interoperability				

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 Systems Development	0206313M Marine Corps Communications Systems		C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.000	1.000
RDT&E Articles Qty				
BTID: Program management support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.325	0.376
RDT&E Articles Qty				
BTID: Joint component led SDD.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.122	1.021
RDT&E Articles Qty				
BTID: SDD Developmental Test Articles.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.075	0.100
RDT&E Articles Qty				
BTID: Life Cycle Cost Estimate.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.481	0.376
RDT&E Articles Qty				
SURSS: Funds will be used for development, demonstration and testing of product improvements and block upgrades to meet increasingly demanding Operational Requirement Document (ORD) thresholds.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	2.440	2.877	2.984	1.562
RDT&E Articles Qty				
COC: Continue engineering and manufacturing development effort of production representative modules.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.503	0.886	0.954	0.728
RDT&E Articles Qty				
COC: Program Management Support				

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 Systems Development	0206313M Marine Corps Communications Systems		C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.685	0.000	0.000	0.000
RDT&E Articles Qty				
COC: Configuration analysis for CSSE, CE, and FICCS Unit Operations Centers to include UOC Universal Communications Interface Module (UCIM).				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000
RDT&E Articles Qty				
TIER II UAS: Integration of common UAS ground control station with Marine Corps C4I network.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.250	2.000
RDT&E Articles Qty				
TIER II UAS: Operational Testing (OT).				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.983	0.509
RDT&E Articles Qty				
TIER II UAS: Development, testing and evaluation of Tier II UAS and payloads.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.809	1.067
RDT&E Articles Qty				
TIER II UAS: Development of common UAS ground control station.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.700	0.500
RDT&E Articles Qty				
TIER II UAS: Program Management Support.				
(U) Total Cost \$	80.884	47.098	43.238	27.825
(U) PROJECT CHANGE SUMMARY:	FY2006	FY2007	FY2008	FY2009
(U) FY 2007 President's Budget:	88.765	47.341	34.693	20.968
(U) Adjustments from the President's Budget:				
(U) Congressional Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases	0.019			
(U) Reprogrammings	-5.976		8.271	6.587
(U) SBIR/STTR Transfer	-1.932			
(U) Minor Affordability Adjustments	0.008	-0.243	0.274	0.270
(U) FY 2008 President's Budget:	80.884	47.098	43.238	27.825

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Systems Development	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems								
CHANGE SUMMARY EXPLANATION: (U) Funding: Funding changes in FY2008 through FY2009 is due to various PBD adjustments. (U) Schedule: Schedule changes have been reflected in exhibit R-4/4a, Schedule Profile/Detail for the COC, CTN, CAC2S programs. (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 Comp</u>	<u>Total Cost</u>
(U) PMC, BLI #464000, CAC2S	3.759	38.531	0.000	20.878	35.451	48.810	49.973	15.160	Cont	Cont
(U) PMC, BLI #464000, CTN	0.000	0.000	5.780	15.784	20.982	18.127	0.531	0.000	0.000	61.204
(U) PMC, BLI #464000, MACCS SUSTAINMENT	11.145	13.321	1.871	1.789	6.468	1.229	1.226	1.228	Cont	Cont
(U) PMC, BLI #464000, TBMCS	6.371	6.485	1.954	3.895	3.527	2.328	3.696	3.797	Cont	Cont
(U) PMC, BLI #474700, SURSS	6.954	3.817	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.771
(U) PMC, BLI #4640000, SURSS	0.000	0.000	10.369	15.075	4.804	4.470	5.619	3.713	Cont	Cont
(U) PMC, BLI #464000, Tier II UAS	0.000	0.000	0.000	13.486	20.305	9.513	18.858	15.757	Cont	Cont
(U) PMC, BLI #464000, BTIS	0.000	0.895	0.000	6.370	9.117	7.408	8.117	8.229	Cont	Cont
(U) PMC, BLI #419000, COC	1.049	268.269	8.041	19.247	23.059	28.405	17.460	18.318	Cont	Cont
(U) D. ACQUISITION STRATEGY:										
<p>(U) CAC2S: The Systems Development and Demonstration (SDD) phase was implemented after the successful completion of the established Program Definition Risk Reduction (PDRR) phase exit criteria. The SDD phase includes the development and verification of the engineering development model representative of the basic common communications, sensor interface and processing, and display components. The SDD contains options for the Production and Deployment Phase (Phased Pricing Fixed Fee). The Production Phase will rely on available commercial items and other equipment meeting the open systems architecture requirement.</p> <p>(U) CRITICAL INFRASTRUCTURE: The program will be executed under Government Works contract by evaluating proposals that will be compatible with Defense Video Services-Global (DVS-G) and service programs.</p> <p>(U) MACCS SUSTAINMENT: The family of systems that comprise the MACCS Sustainment program include all of the currently fielded Air Command and Control assets. These include the Tactical Air Operations Module (TAOM), Communications Data Link System (CDLS), Sector Anti-Air Warfare Facility (SAAWF), Air Defense Communication Platform (ADCP), Direct Air Support Central Airborne (DASCA), Direct Air Support Central Airborne System (DASCAS), TAOM Interface Unit (TIU), Multi-Channel Interface Unit (MCIU), Communication Interface System (CIS), Joint Tactical Information Distribution System (JTIDS), and Joint Range Extension (JRE).</p> <p>(U) CTN: The USMC's CTN acquisition strategy is to participate in the USN's program procurement and testing, making necessary modifications to support the Marine Corps' requirement.</p> <p>(U) MCTIS (BTID): Economy of scales dictate a strategy that highly leverages Joint/coalition evolutionary development and acquisition efforts. The FY03-FY05 Coalition Combat ID Advanced Concept Technology Demonstration (CCID ACTD) completed in October 2005 resulted in a process that evaluated the Military Utility of a Standard NATO Agreement (STANAG) 4579 Compliant millimeter wave (mmW) Target Identification system and other technologies with the objective of identifying the best system to satisfy the Marine Corps requirement. FY04/05 efforts focused on unique system integration efforts and participation in the Joint Forces Command (JFCOM) sponsored operation Exercise Urgent Quest. The resultant analysis and action by the Army Marine Corps Board in March 2006 directed a Army led Component Program, which will complete for resources in the FY08 Service POMs. As a Component lead activity the Marine Corps will resource unique Marine Corps integration and Programmatic requirements through the System Development and Demonstration (SDD) Phase of the Program. The designated Milestone Decision Authority is anticipated to be PEO IEWS and managed by PMTIMS at Fort Monmouth, NJ.</p>										

EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY		PROJECT NUMBER AND NAME
RDT&E, N/BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	February 2007 C2273 Air Operations C2 Systems
<p>(U) Single Integrated Air Picture (SIAP): is a systems engineering effort that will be utilized to reduce risk and increase interoperability for legacy and future Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance C4ISR systems.</p> <p>(U) Theater Battle Management Core Systems (TBMCS): TBMCS is an ACAT 1AC, USAF Program with joint interest/oversight. It was mandated by the Chairman, Joint Chiefs of Staff in July 93 for Air Tasking Order (ATO) Interoperability among all Services. The USMC will not be letting any competitive contracts for TBMCS, but following the USAF lead, utilizing USAF TBMCS contracts and fielding only the joint modules of TBMCS. As USMC unique requirements are identified and funded, they will be provided to the USAF (to include funding) for inclusion within TBMCS utilizing the USAF cost plus fixed fee contract.</p> <p>(U) Small Unit Remote Scouting System (SURSS): These programs range from off-the-shelf modifications to developmental items. Modification covers safety, reliability, and technology up-grades to meet Marine Corps requirements. Plans are being drafted for block 1 upgrade to migrate to a Joint Small Unmanned Aerial System (UAS) and become interoperable with MAGTF C2.</p> <p>(U) TIER II UAS: The program office expects to utilize a competitive acquisition approach to quickly field a capability with limited development. Spiral development will be utilized to field a system fully compliant with documented requirements.</p> <p>(U) COC: The Combat Operations Center (COC) is a Competitively Awarded Contract for design (cost type) and Firm Fixed Price production options.</p> <p>(U) E. Major Performers:</p> <p>COMBAT OPERATIONS CENTER (COC)</p> <p>FY06 - FY09 SPAWAR, Charleston SC. Support Services. Jan 05. FY06 - FY09 Coherent Systems, Lexington Park, MD. System development, demonstration, integration, test and evaluation. Apr 05. FY06 - FY08 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 04. FY05 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 05. FY06 - FY09 NSWC Crane, IN. Mobility platform integrator. Jan 04. FY06-FY09 Lockheed Martin, Syracuse NY. Radar integration. Jan 04. FY06-FY09 Science Applications International Corporation, St. Petersburg, FL. Antenna development and production. Jan 04.</p> <p>CRITICAL INFRASTRUCTURE</p> <p>FY06 SPAWAR, Charleston SC. Product Development. Mar 03.</p> <p>MACCS SUSTAINMENT</p> <p>FY06 - FY09 Northrop Grumman Electronic Systems, Woodland Hills, CA. TAOC Engineering and CETS services. Jan 04. FY06 - FY09 Ultra Electronics, Austin, TX. CDLS Engineering and Software services. March 06. FY06 - FY09 Carlisle Research Incorporated, Van Nuys, CA. TAOM Software Sustainment services. Feb 06. FY06 - FY09 Naval Surface Warfare Center, Crane, IN. ADCP, CIS, DASCAS, CDLS Engineering services. Oct 03.</p> <p>BTID</p> <p>FY06-FY07 NSWC, Crane, IN. Engineering Services. FY06 MarCorSysCom (PA&E) Life Cycle Cost Estimate effort. Contractor Techolote. FY07-FY08 MarCorSysCom support for component led Systems Development and Demonstration (SDD) phase. FY09 MarCorSysCom support for component led and developmental test.</p> <p>SINGLE INTEGRATED AIR PICTURE (SIAP)</p> <p>FY06 - FY07 RNB Technologies, Inc., Stafford, VA Engineering services. Jan 04.</p> <p>SMALL UNIT REMOTE SCOUTING SYSTEM (SURSS)</p> <p>FY08 - FY09 Joint Small UAV ACTD. FY08 - FY09 AeroVironment, Simi Valley, CA - Product development. FY08-FY09 AeroVironment, Simi Valley, CA - Product development.</p>		

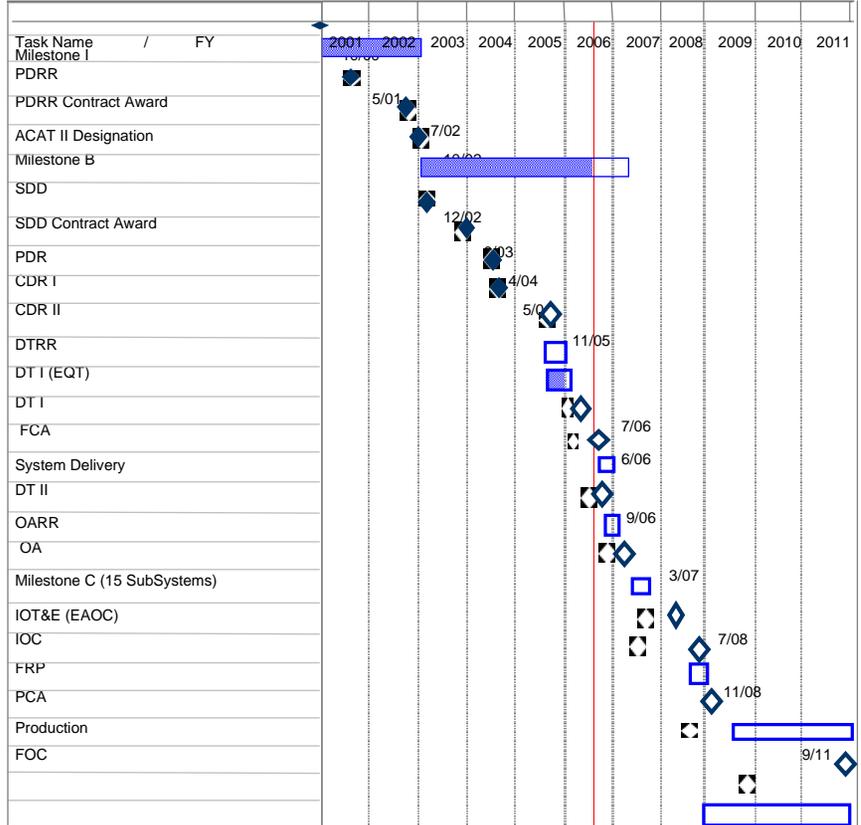
Exhibit R-3 Cost Analysis					DATE: February 2007									
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME									
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communications Sys			C2273 Air Operations C2 Systems									
Cost Categories	Contract Method & Type	Performing 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
CAC2S	RCP	Raytheon, San Diego, CA	118.242	23.555	10/05	11.179	10/06	4.182	10/07	3.688	10/08	Cont	Cont	
CAC2S	WR	SPAWAR (Charleston)	2.320	1.560	10/05	0.600	10/06	0.600	10/07	0.300	10/08	Cont	Cont	
CAC2S	WR	DAHLGREN	0.320	0.860	12/05							0.000	1.180	
CAC2S	WR	SPAWAR (San Diego)	50.306	6.007	01/06	0.300	01/07	0.300	01/08	0.150	01/09	Cont	Cont	
CAC2S	RCP	NCT	0.038	0.030	12/05	0.030	12/06	0.030	12/07	0.030	12/08	Cont	Cont	
MACCS SUSTAINMENT	RCP	NGES, Woodland Hills, CA	6.238	2.514	03/06	2.366	03/07	2.552	03/08	1.933	03/09	Cont	Cont	
MACCS SUSTAINMENT	CPFF	CRL, Van Nuys, CA	2.693	2.127	03/06							0.000	4.820	
SIAP	RCP	MCSC, Quantico, VA	23.168	16.069	06/06	11.742	01/07					0.000	50.979	
TBMCS	MIPR	ESC, Hanscom AFB	0.723			0.325	01/07	0.329	01/08	0.334	01/09	Cont	Cont	
TBMCS	MIPR	Greater Hampton, VA	0.100									0.000	0.100	
CTN	WR	NSWC, Crane, IN	3.516	0.720	11/05	0.100	01/07					0.000	4.336	
CTN	RCP	John Hopkins, Laurel, MD		0.265	03/06							0.000	0.265	
CTN	RCP	MCSC, Quantico, VA				0.076	01/07					0.000	0.076	
CTN	RCP	NATC, NV				0.017	01/07					0.000	0.017	
CTN	RCP	Raytheon, San Diego, CA	1.490	1.919	03/06							0.000	3.409	
CTN	RCP	SAIC, San Diego, CA	5.478	0.600	02/06							0.000	6.078	
CTN	WR	NSWD, Bethesda, MD		0.025	05/06							0.000	0.025	
COC	WR	SPAWAR	5.397			0.790	01/07	1.735	01/08	0.940	01/09	Cont	Cont	
COC	RCP	General Dynamics	15.786	3.477	06/06	2.565	01/07	0.194	01/08	0.063	01/09	Cont	Cont	
COC	RCP	Coherent, Johnstown, PA	0.000					1.228	01/08	0.651	01/09	Cont	Cont	
COC	WR	NSWC, Crane, IN	0.000					0.353	01/08	0.187	01/09	Cont	Cont	
COC	RCP	NGMS, Stafford, VA	0.000					0.428	01/08	0.449	01/09	Cont	Cont	
Critical Infrastructure	WR	SSC Charleston	3.940	1.251	06/06							0.000	5.191	
Critical Infrastructure	RCP	SSC Charleston	0.000	1.410	06/06							0.000	1.410	
TIER II	TBD	TBD						2.100	12/06			0.000	0.000	
TIER II	TBD	TBD						1.567	12/08	2.783	12/09	Cont	Cont	
TIER II	TBD	TBD								0.500	12/09	Cont	Cont	
BTID	WR	NSWC, Crane, IN	1.968					1.022	01/08	TBD	TBD	Cont	Cont	
SURSS	RCP	AeroVironment, Simi Val	0.225					0.100	12/07	0.075	12/08	Cont	Cont	
SURSS	MIPR	USSOCOM, Tampa, FL	0.675					0.252	12/07	0.253	12/08	Cont	Cont	
SURSS	MIPR	Natick, MA	0.035					0.020	12/07	0.015	12/08	Cont	Cont	
SURSS	MIPR	MCSC, Quantico, VA	0.217					0.094	01/08	0.033	01/09	Cont	Cont	
SURSS	MIPR	NAVAIR, Pax River, MD	0.030					0.015	01/08			0.000	0.030	
Subtotal Product Development			242.905	62.389		30.090		17.101		12.384		Cont	Cont	

Exhibit R-3 Cost Analysis					DATE: February 2007									
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME									
RDTE&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communications Sys			C2273 Air Operations C2 Systems									
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
CAC2S	WR	MCSC, Quantico, VA	1.034	0.744	10/05	0.250	10/06	0.200	10/07	0.100	10/08	Cont	Cont	
CAC2S	WR	MCSC, Quantico, VA	1.870	0.942	10/05	0.932	10/06	0.932	10/07	0.746	10/08	Cont	Cont	
CAC2S	RCP	MCSC, Quantico, VA	0.000	4.258	10/05	1.091	10/06	1.332	10/07			0.000	5.349	
CAC2S	WR	NSWC, Crane, IN	0.825	0.217	10/05	0.230	10/06	0.200	10/07	0.200	10/08	Cont	Cont	
CAC2S	WR	JITC	0.207	0.150	10/05	0.050	10/06	0.050	10/07	0.050	10/08	Cont	Cont	
CAC2S	RCP	Lockheed Martin	0.000	0.480	03/06							0.000	0.480	
CAC2S	WR	DASC A	0.000			1.700	12/06	1.961	12/07			0.000	1.700	
CAC2S	WR	ATC	0.000			1.000	12/06	1.000	12/07			0.000	1.000	
JCIET	WR	MCSC, Quantico, VA	0.310	0.169	11/06							0.000	0.479	
JCIET	WR	NSWC, Crane, IN	0.419	0.030	04/06							0.000	0.449	
JCIET	RCP	Anteon, Stafford, VA	1.553	0.951	06/06							0.000	2.504	
JCIET	RCP	CACI, Chantilly, VA	0.020	0.020	11/05							0.000	0.040	
MACCS Sustainment	WR	NGES, Woodland Hills, CA	2.308			0.389	03/07	0.350	03/08	0.311	03/09	Cont	Cont	
MACCS Sustainment	RCP	CRI, Van Nuys, CA				1.200	01/07	1.200	01/08	0.961	01/09	Cont	Cont	
MACCS Sustainment	RCP	Ultra Electronics, Austin, TX	0.000	0.126	02/06	0.200	06/07	0.200	06/08	0.161	06/09	Cont	Cont	
MACCS Sustainment	WR	NSWC, Crane, IN	0.619	2.026	05/06	0.600	01/07	0.600	01/08	0.480	01/09	Cont	Cont	
TBMCS	WR	MCTSSA, CPndltN,CA	0.083			0.032	01/07					0.000	0.115	
TBMCS	WR	NSWC, Crane, IN	0.140	0.218	02/06	0.105	01/07	0.105		0.105	01/09	Cont	Cont	
Subtotal Support (Cont.)	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
TBMCS	WR	MCSC, Quantico, VA	0.166	0.106	01/06	0.054	01/07	0.091	01/08	0.082	01/09	Cont	Cont	
TIER II	TBD	TBD						0.000	12/08	0.000	12/09	Cont	Cont	
TIER II	TBD	TBD						0.500	12/08	0.500	12/09	Cont	Cont	
BTID	TBD	TBD						2.100	TBD	1.021	TBD	Cont	Cont	
CTN	WR	NA	0.060	0.030	11/05							0.000	0.090	
CTN	WR	MCSC, Quantico, VA	0.095	0.025	03/06							0.000	0.120	
CTN	RCP	Raytheon, St. Peters., FL				0.554	01/07	2.613	01/08			0.000	0.554	
CTN	RCP	SAIC, St Petersburg, FL						0.400	01/08			0.000	0.000	
CTN	WR	NSWC Crane, IN						0.350	01/08			0.000	0.000	
CTN	RCP	Lockheed, Syracuse, NY				0.010	01/07	0.100	01/08			0.000	0.010	
Subtotal Support			9.709	10.492		8.397		14.284		4.717		Cont	Cont	
Remarks:														

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		0206313M Marine Corps Communications Sys			C2273 Air Operations C2 Systems									
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
CTN	RCP	NGMS, Stafford, VA				0.020	01/07	0.020	01/08			0.000	0.020	
CTN	RCP	Raytheon, St. Peters., FL				0.100	01/07	0.100	01/08	0.150	01/08	Cont	Cont	
CTN	RCP	SAIC, St. Peters., FL				0.070	01/07	0.100	01/08	0.150	01/08	Cont	Cont	
CTN	WR	NSWC, Crane, IN	0.081	0.114	06/06	0.282	01/07	0.200	01/08	0.313	01/08	Cont	Cont	
CTN	WR	NWAS, Corona, CA	0.494			0.100	01/07	0.125	01/08			0.000	0.594	
CTN	RCP	Lockheed Martin	0.464	0.463	04/06	0.060	01/07	0.100	01/08			0.000	0.987	
CTN		MCOTEA TESTING				0.055	01/07	0.125	01/08			0.000	0.055	
CTN	WR	MCSC, Quantico, VA				0.025	01/07					0.000	0.025	
CAC2S	RCP	CECOM (MCOTEA)	0.413	1.222	12/05	0.600	11/06	1.000	11/07			0.000	2.235	
CAC2S	MIPR	WSMR NM	0.414	0.005	10/05							0.000	0.419	
CAC2S	MIPR	MITRE	0.000	0.852	01/06	0.220	10/06	0.220	11/07			0.000	1.072	
CAC2S	WR	MACCS X	0.000	0.320	01/06	0.300	10/06	0.300	11/07	0.035	11/08	Cont	Cont	
CAC2S	WR	MCTSSA, CPndltN,CA	0.050	0.506	10/05	0.400	10/06	0.035	11/07			0.000	0.956	
CAC2S	RCP	MCTSSA, CPndltN,CA	0.000	0.104	04/06							0.000	0.104	
CAC2S	MIPR	US ASSC	0.000	0.029	04/06							0.000	0.029	
CAC2S	MIPR	SLAMRAAM (Army)	0.976			0.789	01/06	0.789	01/07			0.000	1.765	
COC		MCOTEA TESTING	0.500	0.090	04/06							0.000	0.590	
TIER II	TBD	TBD						0.725	12/08	2.343	12/09	Cont	Cont	
TIER II	TBD	TBD												
BTID	WR	MCOTEA TESTING						1.400	01/08	1.476	01/09	Cont	Cont	
MACCS SUSTAINMENT	WR	NSWC, Crane, IN		0.030	04/06			0.168	01/08			0.000	0.030	
TBMCS		MCOTEA TESTING		0.125	02/06	0.077	01/07	0.075	01/08	0.077	01/09	Cont	Cont	
Subtotal T&E			3.392	3.860		3.098		5.482		4.544		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
TBMCS	CPFF	NGIT, Stafford, VA	0.899	0.012	02/06							0.000	0.911	
TBMCS	FFP	L-3 Com, Stafford, VA				0.225	01/07	0.228	01/08	0.230	01/09	Cont	Cont	
CAC2S	IDIQ	NGIT, Stafford, VA	12.626	2.920	10/05	3.200	10/06	3.200	10/07	3.200	10/08	Cont	Cont	
CAC2S	RCP	MITRETEK	2.546	0.300	10/05	0.900	10/06	0.900	10/07	0.900	10/08	Cont	Cont	
CAC2S	RCP	KCI	0.403	0.092	01/06							0.000	0.495	
CAC2S	RCP	MT	0.000	0.189	02/06							0.000	0.189	
CTN	WR	MCSC, Quantico, VA				0.024	01/07	0.119	01/08	0.347	01/09	Cont	Cont	
CTN	WR	MCSC, Quantico, VA				0.284	01/07	0.634	01/08	0.173	01/09	Cont	Cont	
CTN	WR	PEO				0.100	01/07					0.000	0.100	
CTN	WR	NAV				0.010	01/07	0.040	01/08	0.020	01/09	Cont	Cont	
CTN	IDIQ	NGMS, Stafford, VA	1.636	0.529	06/06	0.362	01/07	0.400	01/08	0.360	01/09	Cont	Cont	
TIER II	TBD	TBD						0.000	12/08	0.000	12/09	Cont	Cont	
TIER II	TBD	TBD						0.850	12/08	0.950	12/09	Cont	Cont	
COC	IDIQ	NGMS, Stafford, VA	3.532	0.061	02/06	0.408	01/07					0.000	4.001	
Subtotal Management			21.642	4.103		5.513		6.371		6.180		Cont	Cont	
Total Cost			277.648	80.844		47.098		43.238		27.825		Cont	Cont	

APPROPRIATION/BUDGET ACTIVITY: **RDTE&E, N /BA 7 Operational Systems Development**
 PROGRAM ELEMENT: **0206313M Marine Corps Communications Systems**
 PROJECT NUMBER AND NAME: **C2273 Air Operations C2 Systems**

CAC2S PROGRAM SCHEDULE



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N, C2273, CAC2S
 (U) PMC, BLI #464000, CAC2S

	<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, C2273, CAC2S	46.360	23.771	17.231	9.399	0.337	0.000	0.000	0.000	Cont	Cont
(U) PMC, BLI #464000, CAC2S	3.759	38.531	20.690	20.878	35.451	48.810	49.973	15.160	Cont	Cont

Exhibit R-4-4a Project Schedule/Detail						DATE:		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME			
RDT&E, N /BA 7 Operational Systems Development		0206313M Marine Corps Communications Systems			C2273 Air Operations C2 Systems			
CAC2S SCHEDULE DETAIL								
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone B (completed 1st Qtr FY03)								
SDD	+++++							
DT	1st Qtr							
OA	4th Qtr							
Long Lead Items		2nd Qtr						
Milestone C		2nd Qtr						
OT		4th Qtr						
LRIP		4th Qtr	+++++					
IOC			4yh Qtr					
Production				2nd Qtr	+++++			
FOC						4th Qtr		
Increment II of CAC2S Production						2nd Qtr	+++++	

Exhibit R-4/4a Schedule Profile/Detail

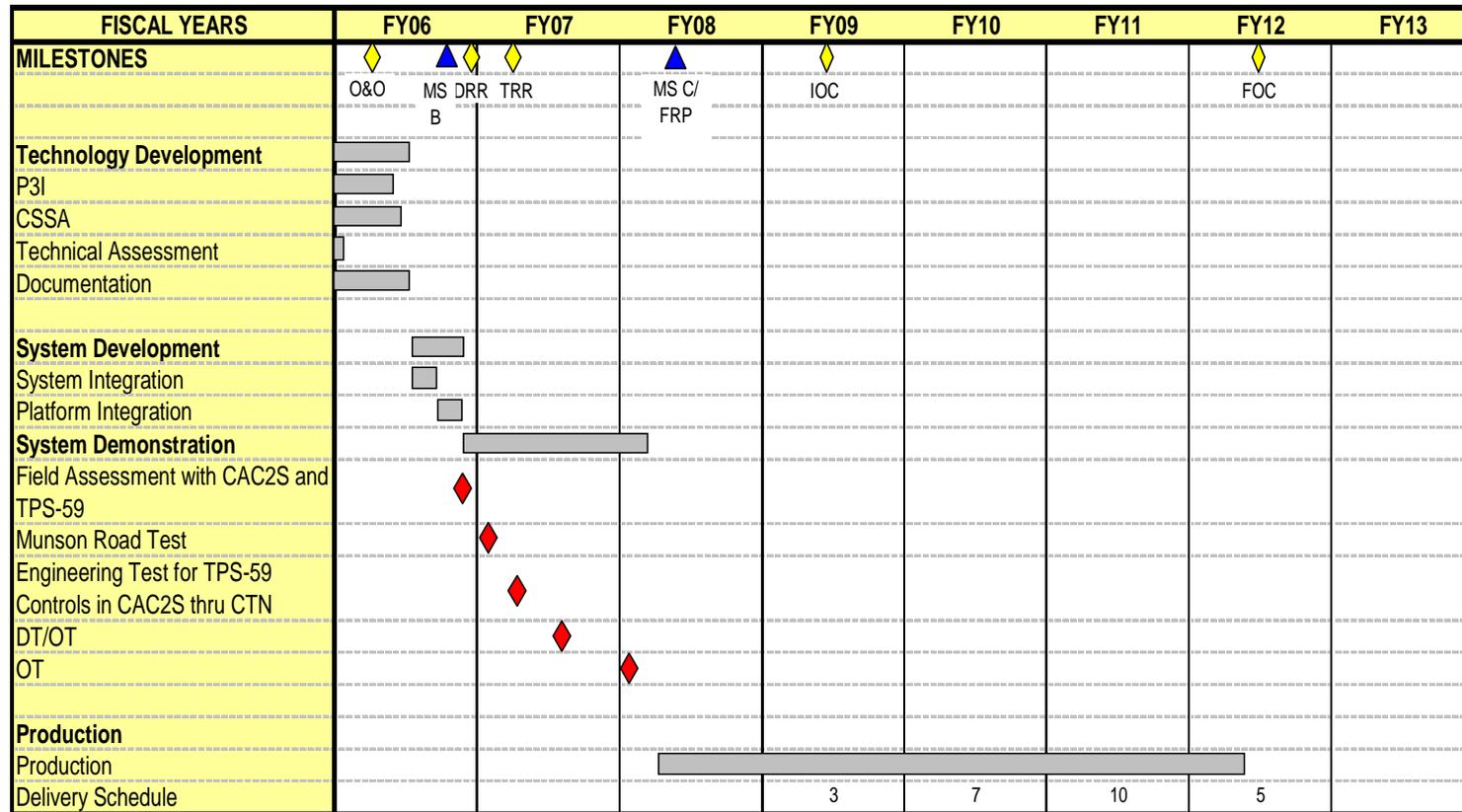
February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2273 Air Operations C2 Systems

CTN PROGRAM SCHEDULE



Program Funding Summary

(APPN, BLI #)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N, C2273, CTN (formally CEC)	4.679	2.249	5.426	1.513	1.514	1.413	1.007	0.502	Cont	Cont
(U) PMC, BLI #464000, CTN	0.000	0.000	5.780	15.784	20.982	18.127	0.531	0.000	0.000	60.809

Exhibit R-4/a Schedule Profile/Detail

February 2007

APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems
---	---	--

CTN SCHEDULE DETAIL

CTN SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone A (1st Qtr FY02 Concept & Technology Development								
Milestone B System Development and Demonstration	4th Qtr							
DT		2nd Qtr						
IOT&E			1st Qtr					
Milestone C			1st Qtr					
Production			2d Qtr	*****				
Delivery				2d Qtr	*****			
IOC				2d Qtr				
FOC							2d Qtr	

Exhibit R-4/4a Schedule Profile/Detail

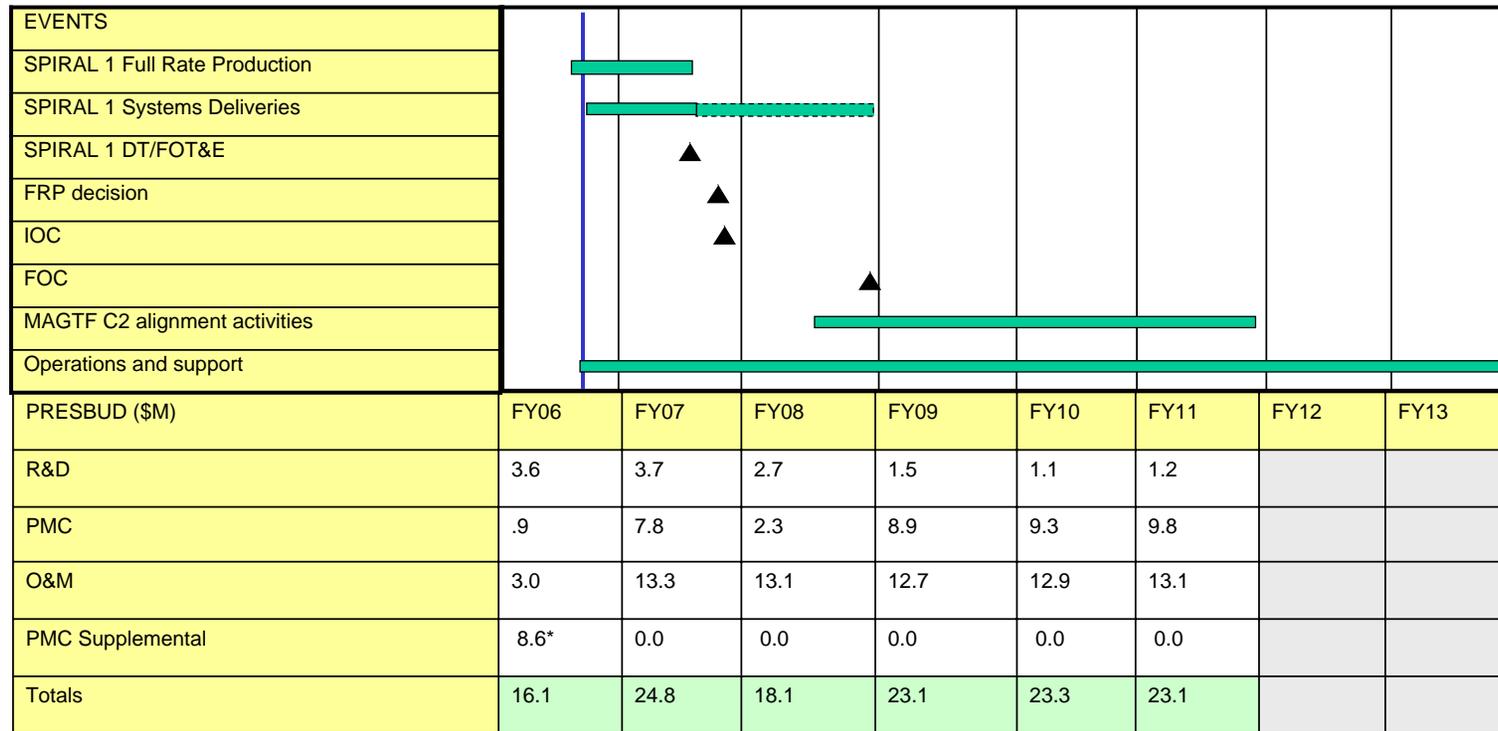
February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2273 Air Operations C2 Systems

COC PROGRAM SCHEDULE



Program Funding Summary

(APPN, BLI #,	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N, C2273, COC	3.628	3.763	3.938	2.290	7.287	1.275	0.360	0.360	Cont	Cont
(U) PMC, BLI #419000, COC	1.049	268.269	8.041	19.249	23.059	28.405	17.460	18.318	Cont	Cont

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2273 Air Operations C2 Systems

COC SCHEDULE DETAIL

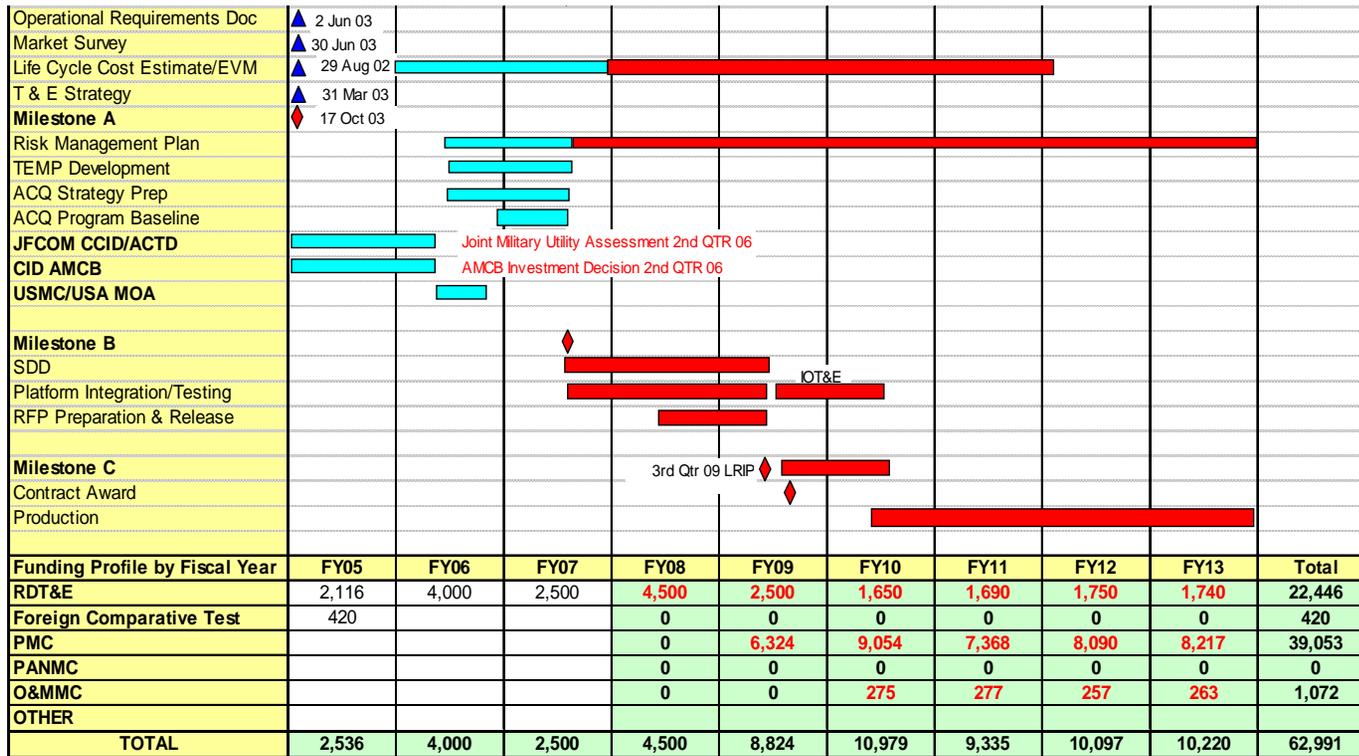
COC SCHEDULE DETAIL	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 012	FY 2013	
Milestone B (2nd Qtr FY 02)										
System Development and Demonstration										
IOT&E		2nd Qtr								
Milestone C										
LRIP Deliveries										
IOC		3rd Qtr								
Full Rate Production					TBD					
Production Deliveries		3rd Qtr	+++++							
Hardware/Software Development	3rd Qtr	+++++								
Engineering Support Services	3rd Qtr	+++++								

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2273 Air Operations C2 Systems

BTID Program Schedule



Program Funding Summary FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 FY 2012 FY 2013 To Compl Total Cost

(APPN, BLI#, NOMEN)

(U) RDT&E,N, C2273C, BTID	0.000	0.000	4.522	2.497	1.665	1.705	1.762	1.748	Cont	Cont
(U) PMC, BLI # 464000, BTID	0.000	0.895	0.000	6.370	9.117	7.408	8.117	8.229	Cont	Cont

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2273 Air Operations C2 Systems

BATTLEFIELD TARGET IDENTIFICATION DEVICE

BTID SCHEDULE	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone A	1st Qtr									
Milestone B				3rd Qtr						
Integration Testing						2nd Qtr				

TIER II UAS PROGRAM SCHEDULE																																				
EXHIBIT R4, Schedule Profile																								DATE:												
																								February 2007												
APPROPRIATION/BUDGET ACTIVITY												PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME												
RDT&E, N /BA 7 Operational Sys Dev												0206313M Marine Corps Communications Sys												C2273 Air Operations C2 Systems												
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Spiral 0																																				
Solicitation																																				
Contract Award																																				
Test Assets																																				
Testing																																				
Milestone B Docs																																				
Milestone C Docs																																				
LRIP																																				
FRP																																				
Spiral 1																																				
Development																																				
Spiral 2																																				
Development																																				
Program Funding Summary												FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost															
(APPN, BLI#, NOMEN)																																				
(U) PMC, BLI #464000, TIER II UAS												0.000	0.000	0.000	13.486	20.305	9.513	18.858	15.757	Cont	Cont															
(U) RDT&E,N, C2273C, TIER II UAS												0.000	0.000	5.742	7.076	9.642	5.150	3.378	1.865	Cont	Cont															

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	0206313M Marine Corps Comm Systems	C2274 Command & Control Warfare Systems						
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	5.901	3.827	11.320	8.835	8.952	9.747	10.445	10.945
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
(U) Command and Control (C2) Warfare Project includes the following tactical electronic intercept, direction finding, and electronic attack systems:								
<p>Tactical Electronic Reconnaissance Processing and Evaluation System (TERPES) is used to process, sort, analyze, display and correlate electronic surveillance and electronic attack data collected by EA-6B aircraft and maintains the Tactical Electronic Orders of Battle.</p> <p>Mobile Electronic Warfare Support System, Product Improvement Program (MEWSS-PIP) will be used to collect and process communication and non-communication signals and provide electronic attack capability from a mobile ground platform.</p> <p>Radio Reconnaissance Equipment Program (RREP) provides the Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. The latest suite of equipment, the SIGINT Suite 3 (SS-3) is comprised of technology and equipment necessary to prosecute advanced wireless signals. The RRP Marines are trained and equipped to support the full spectrum of Marine Expeditionary Unit Special Operations Capable (MEU SOC) mission profiles as well as provide real time, imbedded support to any special operations scenario. This provides the supported commander greater flexibility in employing his SIGINT assets when the use of conventional Radio Battalion assets are not feasible. RREP is currently maintaining the SS-3 using a spiral development approach that inserts the latest technology into the suite as it becomes mature. This enables the SS-3 to remain a current platform against emerging threats.</p> <p>Communication Emmitter Sensing and Attacking System (CESAS)/(FLAMES) a system of COTS/GOTS designed to support the Marine Air Ground Task Force MAGTF Commander in conducting operations. It provides the capability to effectively sense/detect and attack, through the use of electromagnetic energy, the enemy's communication systems in support of the Commander's Electronic Warfare plan. The system will replace for the existing AN/ULQ-19 and will assume the mission of sensing and denying the enemy the use of the electromagnetic spectrum, thereby disrupting his command and control system. Though primarily HMMWV-mounted, CESAS will also be capable of both seaborne and airborne deployment and employment, enhancing the Radio Battalion's ability to support Expeditionary Maneuver Warfare. The CESAS operate within the bandwidth of 20 to 2500 MHz (Threshold) 2MHz to 8000 MHz (Objective) against enemy emitters that use modern modulation schemes.</p> <p>Counter Remote Controlled Improvised Explosive Device (RCIED) and Elect Warfare (Jammers/CREW) provides full spectrum protection against high and low power threats. The RCIED is capable of being integrated in all Marine Corps Tactical Ground Vehicles. This program is an ongoing effort to develop new techniques to improve the capabilities of the system by doing enhancements to software and to develop upgrades in order to prevent technology obsolescence.</p>								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM								
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost	0.104	0.000	0.000	0.000				
RDT&E Articles Qty								
CESAS - Perform integration efforts of AN/USQ-146(V) 5 and Spiral Development.								
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost	0.250	0.080	0.000	0.000				
RDT&E Articles Qty								
CESAS - Research and Development Directed Energy and Directional Attack Antennas.								
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost	0.400	0.500	0.138	0.420				
RDT&E Articles Qty								
CESAS - Research and Development of techniques, tactics and procedures.								

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	0206313M Marine Corps Comm Systems	C2274 Command & Control Warfare Systems			
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.407	0.250	0.000	0.000
RDT&E Articles Qty					
CESAS - Testing Support					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.174	0.196	0.000	0.000
RDT&E Articles Qty					
CESAS - Testing for CESAS and Radio Threads					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.030	0.023	0.000	0.000
RDT&E Articles Qty					
CESAS - Program Management Support.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000	0.000
RDT&E Articles Qty					
CESAS - TTP Development and Operational Analysis.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.410	0.000	0.000	0.000
RDT&E Articles Qty					
MEWSS PIP: Operational Readiness enhancements.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.200	0.702	0.000	0.000
RDT&E Articles Qty					
TERPES: Research for TERPES software applications, hardware and software integration research, investment for R&D equipment and facilities; work to integrate the newer integrated broadcast receivers (IBR)s and Joint Tactical Terminal (JTT).					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.090	1.050	0.000	0.000
RDT&E Articles Qty					
TERPES: Research TERPES software to provide improvements in the interfaces and interoperability with the EA-6B Improved Capabilities (ICAP) II and III aircraft, (TEPP/TSP application); improve overall system performance (Tactical Data Correlation).					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.462	0.252	0.000	0.000
RDT&E Articles Qty					
TERPES: Program Management Support					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.374	0.574	0.203	0.000
RDT&E Articles Qty					
RREP: Technology Research for SS-3 upgrades and modifications to include EA enhancements on current platforms.					

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	0206313M Marine Corps Comm Systems	C2274 Command & Control Warfare Systems			
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.200	0.534	0.919
RDT&E Articles Qty					
RREP: Research and Development of next generation SIGINT Suite.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	1.208	1.496
RDT&E Articles Qty					
RCIED: Engineering Analysis Support.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	6.237	4.000
RDT&E Articles Qty					
RCIED: Hardware and Software Development.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	3.000	2.000
RDT&E Articles Qty					
RCIED: Hardware and Software Integration and testing.					
(U) Total \$		5.901	3.827	11.320	8.835
(U) PROJECT CHANGE SUMMARY:					
	FY 2006	FY 2007	FY 2008	FY 2009	
(U) FY 2007 President's Budget:	5.896	3.847	3.616	4.189	
(U) Adjustments from the President's Budget:					
(U) Congressional Reductions					
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings			8.435	4.537	
(U) SBIR/STTR Transfer					
(U) Minor Affordability Adjustments	0.005	-0.020	-0.731	0.109	
(U) FY 2008 President's Budget:	5.901	3.827	11.320	8.835	
CHANGE SUMMARY EXPLANATION:					
(U) Funding: See Above.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					

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	0206313M Marine Corps Comm Systems	C2274 Command & Control Warfare Systems								
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) PMC BLI 465200 Modification Kits MEWSS	1.239	0.209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.448
(U) PMC BLI 465200 Mod Kit TERPES	2.154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.154
(U) PMC BLI 465200 Mod Kit FLAMES (CESAS)	5.227	4.421	1.334	1.366	0.000	0.177	0.000	0.000	0.000	12.525
(U) PMC BLI 474700 Intel Suppt Eq RREP	3.923	3.234	2.007	6.698	1.083	1.301	1.389	1.427	Cont	Cont
(U) Related RDT&E:										
(U) (U) PE 0305885G (Tactical Cryptologic Program)										
(U) D. ACQUISITION STRATEGY:										
<p>TERPES: The acquisition of components for the TERPES upgrade refreshes will maximize the use of existing equipment, NDI/COTS/GOTS/GFE equipment and software. The integration effort for TERPES hardware and software will be accomplished through the TERPES System Support Activity, Naval Air Warfare Center - Weapons Division, Pt. Mugu, CA. These efforts are directed by the Program Manager for Intelligence Systems, MAGTF C4ISR Product Group, Marine Corps Systems Command. TERPES will parallel enhancements to the EA-6B Improved Capabilities (I CAP II) and (ICAP III) upgrades and automatic interface of TERPES, Global Command and Control System - Integrated Imagery and Intelligence (GCCS-I3) and future joint mission planning and Distributed Common Ground/Surface System - Marine Corps (DCGS-MC).</p> <p>MEWSS PIP: The MEWSS PIP provides an Electronic Warfare support system that leverages from the Army CECOM Intelligence Electronic Warfare Common Sensor (IEWCS) program. Developmental and fielding efforts of the block upgrades focus on incorporating technology enhancements into the fielded system and providing specified block capabilities to the fleet as they become available. The MEWSS PIP leverages, when available COTS/GOTS/NDI solutions to obsolescence, operational readiness and supportability.</p> <p>RREP: The RREP will incorporate and integrate cutting edge technologies through the use of Commercial off the Shelf (COTS) and Government off the Shelf (GOTS) and Non-Development Items (NDI) components.</p> <p>CESAS: Acceleration of the CESAS effort and designation of CESAS as a Program of Record was undertaken as part of the Defense Emergency Response Funding initiative (DERF). Funds were applied to the program in FY-2 and together with FY03 DERF funds, an initial AN/ULQ-19 replacement capability was provided to the fleet in the Feb 04 for filed user evaluation purposes. Three (3) AN/USQ-146(V) 3 units were procured from Rockwell Collins and integrated into the HMMWV platforms. SSCC performed the integration effort. Two (2) prototypes were used for DT in Aug 03 with assistance from MCOTEA. OA was conducted in Dec 03 with a success rate. Upon completion of OA, SSCC incorporated ECP and modifications identified during OA in the prototype units. Two (2) prototypes were provided to 3rd RADB in Feb 04 for FUE, production will begin in FY05 meeting the IOC and FOC in FY07.</p> <p>Counter RCIED and Elect Warfare (CREW): The program is an ongoing effort to develop new techniques to improve the capabilities of the System by doing the following; Enhancing software capabilities to operate within the target environment; Develop hardware upgrades in order to prevent technology obsolescence; As the technologies and upgrades are replaced, there will be a requirement for testing and integration of the new capability and enhancement of system capabilities.</p>										

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	0206313M Marine Corps Comm Systems	C2274 Command & Control Warfare Systems
(U) E. MAJOR PERFORMERS:		
COUNTER REMOTE CONTROLLED IMPROVISED EXPLOSIVE DEVICE (RCIED)		
FY08 NAVAL SURFACE WARFARE CENTER (NSWC), Crane IN. Provide funds for hardware, software testing and integration research. TBD: Engineering Analysis and Hardware and Software Development.		
FY09 NSWC, Crane, IN. Continue to provide funds for hardware, software testing and integration research. TBD: Engineering Analysis and Hardware and Software development		
MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM, PRODUCT IMPROVEMENT PROGRAM (MEWSS-PIP)		
FY06 SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements.		
COMMUNICATION EMMITTER SENSING AND ATTACKING SYSTEM (CESAS/FLAMES)		
FY06 NAVSEA, Provide research and development of techniques, tactics and procedures NSWC, Crane, Provide testing support		
FY07 NAVSEA, Provide research and development of techniques, tactics and procedures NSWC, Crane, Provide testing support		
FY08 NAVSEA, Provide research and development of techniques, tactics and procedures		
FY09 NAVSEA, Provide research and development of techniques, tactics and procedures		
TACTICAL ELECTRONIC RECONNAISSANCE PROCESSING AND EVALUATION (TERPES)		
FY06 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research. LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems. MARCORSYSCOM, (CEOSS), Titan Corporation, Reston, VA. Provide funds for software integration and testing. NSMA, (MTC), ITsFAC, Stafford, VA. Provide integration facility and program management support.		
FY07 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Continue to provide funds for hardware, software and integration research. LOCKHEED MARTIN, Denver CO. Continue to provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.		
RADIO RECONNAISSANCE EQUIPMENT PROGRAM (RREP)		
FY06 NSMA, (MTC), ITsFAC, Stafford, VA. Provide integration facility and program management support NSWC, Crane, Provide System Engineering support, begin development of DAR S/W and H/W Solution ARMY COMMUNICATIONS & ELECTRONICS COMMAND (CECOM). Provide integration facility.		
FY07 NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support NSWC, Crane, Continue to provide System Engineering support, begin development of DAR S/W and H/W Solution CECOM, Provide integration facility		
FY08 NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support NSWC, Crane, Continue to provide System Engineering support, begin development of DAR S/W and H/W Solution CECOM, Provide integration facility		
FY09 NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support NSWC, Crane, Continue to provide System Engineering support, begin development of DAR S/W and H/W Solution CECOM, Provide integration facility		

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			0206313M Marine Corps Comm Systems			C2274 Command & Control Warfare Systems									
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 Comp	Total Cost	Target Value of Contract	
MEWSS	WR	SPAWAR, S.C	2.542	0.410	11/05							Cont	Cont		
TERPES	RCP	Lockheed Martin	4.249	2.103	02/06	0.763	12/06					Cont	Cont		
TERPES	MPR	NAWC, Pt. Mugu CA	4.708	0.500	11/05	0.300	10/06					Cont	Cont		
TERPES	RCP	NAWC, Pt. Mugu CA	0.320	0.356	05/06	0.000	01/07					Cont	Cont		
TERPES	RCP	NSMA (MTC)	0.650	0.243	03/06	0.489	12/06					Cont	Cont		
TERPES	RCP	NSMA (AIES)	0.463			0.200	11/06					Cont	Cont		
RREP	RCP	NSWC, Crane	0.756	0.096	04/06	0.200	01/07	0.203	01/08	0.350	01/09	Cont	Cont		
RREP	RCP	NSMA (MTC)	0.102	0.123	12/05	0.124	12/06	0.124	12/07	0.350	12/08	Cont	Cont		
RREP	MIPR	ARMY COMM ELEC	0.000	0.135	03/06	0.450	03/07	0.410	03/08	0.219	03/09	Cont	Cont		
CESAS	RCP	SPAWARSYSCEN	3.294	0.104	12/05			01/00				Cont	Cont		
CESAS	WR/MIPR	NSWC, Crane	0.395	0.407	12/05	0.250	12/06	0.000				Cont	Cont		
CESAS	RCP	MCLB	0.960	0.250	12/05	0.080	12/06	0.000				Cont	Cont		
CESAS	RCP	NAVSEA	1.100	0.400	12/05	0.500	12/06	0.138	12/07	0.420	12/08	Cont	Cont		
Subtotal Product Development				5.127		3.356		0.875		1.339		Cont	Cont		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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 Comp	Total Cost	Target Value of Contract	
TERPES	RCP	MCSC	0.000	0.015	05/06	0.202						Cont	Cont		
CESAS	RCP	NSMA (MTC)	1.230	0.174	11/05	0.196	11/06					Cont	Cont		
RREP	RCP	MCSC	0.000	0.020	03/06							Cont	Cont		
RCIED	RCP	MCSC	0.000	0.000				7.445	12/07	5.496	12/08	Cont	Cont		
Subtotal Support				0.209		0.398		7.445		5.496		Cont	Cont		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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 Comp	Total Cost	Target Value of Contract	
TERPES	REALIGN	MCOTEA	0.000	0.035	11/05	0.050	11/06					Cont	Cont		
TERPES	MPR	DIA	0.000	0.500	05/06							Cont	Cont		
RCIED	MPR	NSWC	0.000	0.000				3.000	12/07	2.000	12/08	Cont	Cont		
Subtotal T&E				0.535		0.050		3.000		2.000		0	0		
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 Comp	Total Cost	Target Value of Contract	
CESAS	RC	MCSC	0.808	0.030	12/05	0.023	12/06	0.000				Cont	Cont		
Subtotal Management				0.030		0.023		0.000				Cont	Cont		
Remarks:															
Total Cost				5.901		3.827		11.320		8.835		Cont	Cont		

Exhibit 4/4a Schedule Profile/Detail

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT NUMBER AND NAME
02066313M MARINE CORPS COMM

PROJECT NUMBER AND NAME:
C2274 Command & Control Warfare Systems

COUNTER RCIED

	FY08	FY09	FY10	FY11	FY12	FY13
High Powered Jammers						
Engineering Analysis						
Software/Hardware Development						
Integration & Testing	◆	◆	◆	◆	◆	◆
System Upgrade & NET	◆	◆	◆	◆	◆	◆

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E

(U) PMC BLI 652000 COUNTER RDIED & EW

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E	0.000	0.000	10.445	7.496	8.212	8.908	9.587	10.064	0.000	54.712
(U) PMC BLI 652000 COUNTER RDIED & EW	0.000	0.000	10.589	13.599	14.557	14.440	13.546	13.519	0.000	80.250

Exhibit 4/4a Schedule Profile/Detail

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY
RDTE, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT NUMBER AND NAME
02066313M MARINE CORPS COMM

PROJECT NUMBER AND NAME:
C2274 Command & Control Warfare Systems

Counter RCIED & Elect Warfare	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Engineering Analysis	1Q-----					
Software/Hardware Development	1Q-----					
Integration & Testing	2Q	2Q	2Q	2Q	2Q	2Q
Upgrades & NET	3Q-4Q	3Q-4Q	3Q-4Q	3Q-4Q	3Q-4Q	3Q-4Q

Exhibit 4/4a Schedule Profile/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 02066313M MARINE CORPS COMM	PROJECT NUMBER AND NAME: C2274 Command & Control Warfare Systems

RREP MILESTONE SCHEDULE

<u>EVENT</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>
SS-3 IOC/FOC	2/3Q	1Q							
SS-3 PIP IOC/FOC			1Q						
SS-4 MS B				2Q					
SS-4 MS C					2Q				
SS-4 IOC/FOC						4Q	4Q		

<u>Program Funding Summary</u> <u>(APPN, BLI #, NOMEN)</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>(U) RDT&E,N</u>	0.374	0.774	0.737	0.919	0.740	0.839	0.858	0.881	Cont	Cont	-
<u>(U) PMC BLI 474700 Intelligence Support Equip RREP</u>	3.923	3.234	2.007	6.698	1.083	1.301	1.389	1.427	Cont	Cont	

Exhibit 4/4a Schedule Profile/Detail

DATE:
February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT NUMBER AND NAME
02066313M MARINE CORPS COMM

PROJECT NUMBER AND NAME:
C2274 Command & Control Warfare Systems

RREP UPGRADE SCHEDULE	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
SS-3 FOC	1Q							
SS-3 PIP IOC/FOC		1Q						
SS-4 MS B			2Q					
SS-4 MS C				2Q				
SS-4 IOC/FOC					4Q	4Q		

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 Development		0206313M Marine Corps Communication Systems			C2275 Joint Tactical Radio Systems					
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost			11.843	14.557	10.259	10.208	6.302	5.548	4.099	4.180
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
<p>(U) Integrated Intra-Squad Radio Systems (IISR) - Integrated Intra-Squad Radio is a short-range radio that utilizes advanced wireless LAN technology and spread spectrum techniques to provide a hands free intercommunication capability while ensuring a low probability of interception and detection. The IISR consists of a small radio unit powered by 2 AA batteries, a wireless PTT switch, a lightweight headset compatible with the current combat helmet, and a heavy-duty nylon pouch. The dual version integrates with the AN/PRC-148 using an additional Push-to-talk (PTT) switch to provide the user control of two radio with one headset/microphone.</p> <p>(U) Tactical Satellite Comm Terminal (TSCT) - LIGHTWEIGHT MULTIBAND SATELLITE TERMINAL (LMST)/GROUND MOBILE FORCES (GMF) is a tri-band Super High Frequency (SHF) satellite terminal mounted in transit cases and transported by HMMWVs. They will augment the existing Ground Mobile Force (GMF) satellite terminals. Additionally, across the FYDP, in accordance with the LMST Acquisition Strategy and Baseline, a quantity of 21 existing GMF terminals (TSC-93) will be upgraded and refurbished with enhanced components in order to extend their useful life. The GMF upgrades will occur concurrent with additional LMST transit case terminal procurements.</p> <p>(U) Legacy Communications/Electronics Modifications and Sustainment encompass post production sustainment of fielded tactical communication and networking systems and service life extension programs (SLEP) of aging communications equipment reaching the end of their life cycle. The post production sustainment provides necessary engineering and logistic support to maintain the existing operational capability above threshold operational readiness. The support provides equipment specialists, configuration management, supply support coordination and control, depot maintenance control and warranty administration.</p> <p>(U) Networks: The following systems require SLEP/supportability upgrades: The Unit Level Circuit Switch (ULCS), which consists of the TTC-42, SB-3865 and SB-3614 require sustainment and modifications to continue the operating forces networking/switching capability until TSM is fielded. The AN/TSQ-227 Digital Technical Control (DTC) upgrades are driven by DoD mandated interoperability and security requirements, which includes technology insertion and evolutionary equipment improvements.</p> <p>(U) Wireless: The following systems require SLEP/supportability upgrades: These are the AN/TRC-170 Tropospheric Scatter Microwave Radio Terminal and the AN/PSC-5 "ShadowFire" upgrade. The AN/TRC-170 provides secure digital trunking between major nodes of the TRI-TAC communications network with a range of over 100 miles and will reach its end of service life in FY05. The FY05 upgrade allows for the fielded AN/PSC-5 to support past FY04.</p> <p>(U) Command & Control On-the-move Network, Digital Over-the-horizon Relay - (CONDOR) is a direct result of after action reports from Operations Iraqi Freedom and Enduring Freedom. The equipment suite will enable and provide on-the-move (OTM), over-the-horizon (OTH) connectivity between Tactical Data Radio networks (such as EPLRS networks). A CONDOR GW equipment suite consists primarily of a SATCOM modem, a mobile SATCOM antenna, a router, LAN encryption equipment, and a shock-mounted transit case. No vehicles are being procured. The CONDOR GW equipment suite will be installed on existing vehicles.</p> <p>(U) SHF Wideband Replacement (HC3) will be the Marine Air Ground Task Force (MAGTF) commanders primary SATCOM method of transmitting and receiving wideband voice, video, and data. The HC3 will be used at all levels of the MAGTF to support the commanders critical communication requirements. At the Regiment and below the focus will be on Comm-on-the-Move (COTM) and Comm-on-the-Pause (COTP) communications while at the Division/FSSG/Wing and above the transportable version will be incorporated as well. HC3 will be embedded in tactical vehicles such as the Expeditionary Fighting Vehicle (EFV) and the Light Armored Vehicle (LAV). As a result, it will play a vital role in command and control in all phases of an operation.</p> <p>(U) Wireless Cable Replacement (WCR) - The Wireless Cable Replacement (WCR) Initiative will procure a line of sight, unattended repeater capable of data rates ranging from 4.6 Mb/s to 155 Mb/s. This repeater will wirelessly remote data and telephone services from command and control centers to transmission systems such as the AN/MRC-142 and the AN/TRC-170. OIF Lessons-Learned revealed that fiber optic cables were highly susceptible to damage, leading to loss of service to the supported commander and staff. The WCR initiative fulfills the WCR Requirement within the Digital Wideband Transmission System (DWTS) Required Operational Capability (ROC) CCC 256.1.2, change 6 dated 28 Jan 04. The subject and purpose of the DWTS ROC is the official requirement for the AN/TRC-170, AN/MRC-142(A&B), and the WCR in the Marine Corps.</p>										

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 Development	0206313M Marine Corps Communication Systems	C2275 Joint Tactical Radio Systems		
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.472	0.000	0.000	0.000
RDT&E Articles Qty				
IISR: Operational Test and Evaluation				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.366	1.000	0.000	0.000
RDT&E Articles Qty				
SHF Wideband Replacement (HC3): USMC integration efforts.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.432	0.853	1.673	2.059
RDT&E Articles Qty				
SHF Wideband Replacement (HC3): Navy/MC Crypto Development				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.842	0.000	0.000	0.000
RDT&E Articles Qty				
SHF Wideband Replacement (HC3): Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.380	0.150	0.160
RDT&E Articles Qty				
TSCT (LMST): Develop and test component upgrades for integration for Ka-Band Upgrades.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.515	0.320	0.051	0.044
RDT&E Articles Qty				
TSCT (LMST): Contract support costs.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.406	0.000	0.000	0.000
RDT&E Articles Qty				
TSCT (LMST): DISA Certification				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.407	5.029	2.964	1.210
RDT&E Articles Qty				
Legacy Comm/Elec (Networks): Develop and test component upgrades for integration into legacy network equipment (ULCS/DTC)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.270	0.270	0.320	0.312
RDT&E Articles Qty				
Legacy Comm/Elec (Networks): Develop and test component upgrades for integration into legacy network equipment (ULCS/DTC)				

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 Development	0206313M Marine Corps Communication Systems	C2275 Joint Tactical Radio Systems			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.381	0.123	0.000	0.000	
RDT&E Articles Qty					
Legacy Comm/Elec (Wireless): Develop and test component upgrades for integration into legacy radio systems (TRC-170 / PSC-5)					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.750	0.400	0.250	0.500	
RDT&E Articles Qty					
CONDOR: Spiral Development Studies and Integration Development					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.925	0.925	1.150	1.300	
RDT&E Articles Qty					
CONDOR: Program Support, Logistics Support & Management, Technical Engineering Support					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	1.036	1.500	1.000	1.800	
RDT&E Articles Qty					
CONDOR: Common Army Marine C2 Vehicle (CAMC2V) Development.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.250	0.250	0.300	0.300	
RDT&E Articles Qty					
CONDOR: Technical, Engineering Support and Contract Advisory, Assistance Services (MITRE)					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.200	0.400	0.400	0.249	
RDT&E Articles Qty					
CONDOR: Gateway and CAMC2V OT (MCOTEA)					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.200	0.000	0.000	0.000	
RDT&E Articles Qty					
CONDOR: Integration of Condor Gateway capability into ITVs.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.200	0.200	0.400	0.400	
RDT&E Articles Qty					
CONDOR: Gateway and CAMC2V DT/02					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	1.091	1.697	1.401	1.674	
RDT&E Articles Qty					

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 Development	0206313M Marine Corps Communication Systems	C2275 Joint Tactical Radio Systems			
CONDOR: Gateway and CAMC2V Materials					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.050	0.050	0.100	0.100	
RDT&E Articles Qty					
CONDOR: Marketing					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.050	0.050	0.100	0.100	
RDT&E Articles Qty					
CONDOR: Travel/TAD					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.810	0.000	0.000	
RDT&E Articles Qty					
WCR: Contractor Support					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.250	0.000	0.000	
RDT&E Articles Qty					
WCR: Operational Testing, MCOTEA					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.050	0.000	0.000	
RDT&E Articles Qty					
WCR: MCTSSA Integration Testing					
(U) Total \$	11.843	14.557	10.259	10.208	
(U) PROJECT CHANGE SUMMARY:	FY 2006	FY2007	FY 2008	FY 2009	
(U) FY 2007 President's Budget:	7.838	14.612	13.870	12.158	
(U) Congressional Reductions	0.013				
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	3.987		-3.691	-2.029	
(U) SBIR/STTR Transfer					
(U) Minor Affordability Adjustment	0.005	-0.055	0.080	0.079	
(U) FY 2008 President's Budget	11.843	14.557	10.259	10.208	
CHANGE SUMMARY EXPLANATION:					
(U) Funding: See Above.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					

EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Development	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2275 Joint Tactical Radio Systems
--	---	--

(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY2006</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 BLI# 463300 Radio Systems (LMST)	10.107	5.486	5.004	1.423	1.261	1.510	1.432	1.472	Cont	Cont
(U) PMC BLI# 463300 LEGACY RADIO SYS	6.736	0.000	3.993	4.044	4.089	3.839	0.277	0.284	Cont	Cont
(U) PMC BLI# 463300 CONDOR	3.583	0.000	8.545	8.365	5.993	0.000	0.000	0.000	0.000	26.486
(U) PMC BLI# 463300 TCM	0.000	417.779	34.277	61.295	106.887	43.614	0.078	0.916	Cont	Cont

(U) Related RDT&E: Not Applicable**(U) D. ACQUISITION STRATEGY:**

(U) LEGACY COMM ELECTRONICS MOD: Provide continuous sustainment support to fielded equipment and implemented Service Life Extension Programs for equipment reaching its end of life/supportability.

(U) Tactical Satellite Comm Terminal - LMST- Due to funding constraints, the acquisition strategy for the Lightweight Multiband Satellite Terminal and GMF terminals is to procure the minimum amount of LMST terminals for the FMF to satisfy the need for a modern tri-band satellite terminal in the USMC inventory while simultaneously upgrading the legacy GMF TSC-93 terminals with enhanced components. Upgrading the GMF terminals is in accordance with the LMST acquisition strategy and will attempt to fill the gap in USMC SATCOM capability since funding will not allow for meeting the LMST AAO completely. The LMST upgrade program leverages off the current efforts and integrates the full duplex Ka-band capabilities into existing terminals.

(U) SHF Wideband Replacement (HC3) is the long-term Development of multi-band replacement terminals synchronized with Transformational Communications (TC) satellite availability across the DoD. The USMC RDTE funding is for pre-milestone B activities & partnering with industry with Initial studies and transfer of technology between services. And, it will bring capability to test incrementally as selected technologies mature. The early efforts will ensure USMC interests are given equal weight to that of other services as this terminal will replace (approx. 2010/2012) all other DoD SATCOM terminals.

(U) INTEGRATED INTRA-SQUAD RADIO - IISR- Integrated Intra-Squad Radio is a short-range radio that utilizes advanced wireless LAN technology and spread spectrum techniques to provide a hands-free intercommunication capability while ensuring a low probability of interception and detection. The IISR consists of a small radio unit powered by 2 AA batteries, a wireless PTT switch, a lightweight headset compatible with the current combat helmet, and a heavy-duty nylon pouch. The dual version integrates with the AN/PRC-148 using an additional Push-to-talk (PTT) switch to provide the user control of two radios with one headset/microphone.

(U) Command & Control On-the-move Network, Digital Over-the-horizon Relay - CONDOR--- CONDOR was approved as an ACAT Level III program. Commanding Officer MCSC will be the MDA. The MCSC CONDOR project office will pursue a Milestone B decision during 1st QTR FY07 and a Milestone C decision during 2nd QTR FY07. The CONDOR GW concept has been developed over the past 29 months by the cooperative efforts of MCSC and ONR (Littoral Combat, Future Naval Capabilities). Having achieved advocate endorsement at the CEAB in August 2003, CONDOR GW has a Technology Transition Agreement (TTA) with ONR for transition to a Program of Record (POR).

(U) Wireless Cable Replacement - WCR - The acquisition strategy for WCR involves the testing and procurement of a fully developed and mature COTS product. MCSC WCR will select from 3 or more manufacturers. The final selection will be based on capability, price, and Marine Corps test results.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Development	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2275 Joint Tactical Radio Systems
(U) E. MAJOR PERFORMERS:		
FY06 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND DISA Certification and Support, FEB - 06.		
FY07 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND INTEGRATION & UPGRADE, JAN 07.		
FY08 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND INTEGRATION & UPGRADE, JAN 08		
FY09 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND INTEGRATION & UPGRADE JAN 09		
FY06 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Integration efforts JUN 06 and Crypto Development MAR 06		
FY07 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Crypto Development MAR 07		
FY08 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Crypto Development MAR 08		
FY09 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Crypto Development MAR 09		
FY06 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. JUN 06		
FY07 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. FEB 07		
FY08 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. DEC 07		
FY09 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. DEC 08		
FY06 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support Jan 06		
FY07 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support Jan 07		
FY08 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support NOV 07		
FY09 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support NOV 08		
FY07 WCR: Robbins AFB, Georgia, Integration Testing and Support Jan 07		

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			0206313M Marine Corps Communication Systems					C2275 Joint Tactical Radio Systems							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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	
LMST Ka-Band Upgrade	FFP	Harris Corp, Florida	0.000	0.000		0.380	01/07	0.150	01/08	0.160	01/09	Cont	Cont		
LMST DISA Certification	MIPR	PM WIN-T, CECOM	0.045	0.406	02/06	0.000		0.000		0.000		Cont	Cont		
SHF Wideband Replacement (USMC)	MIPR	PM WIN-T, CECOM	0.125	1.366	06/06	1.000	01/07	0.000		0.000		Cont	Cont		
SHF Wideband Replacement (Navy/USMC)	MIPR	PM WIN-T, CECOM	0.000	1.432	03/06	0.853	03/07	1.673	03/08	2.059	03/09	Cont	Cont		
IISR Concept and Technical Development	WR	SPAWAR Charleston	0.000	0.325	03/06	0.000		0.000		0.000		Cont	Cont		
LCE (Networks) Development	FFP	SPAWAR Charleston	0.000	1.935	06/06	5.152	02/07	2.964	12/07	1.210	12/08	Cont	Cont		
CONDOR Integ GW ITV's	FFP	SPAWAR Charleston	0.000	0.200	02/06	0.000		0.000		0.000		0.000	0.200		
CONDOR Development	SOW	SPAWAR Charleston	0.000	3.377	01/06	4.097	01/07	3.301	11/07	4.823	11/08	Cont	Cont		
Subtotal Product Development			0.170	9.041		11.482		8.088		8.252		Cont	Cont		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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	
CONDOR Program travel	Allot	MARCORSYSCOM	0.000	0.050	10/05	0.050	11/06	0.100	11/07	0.100	11/08	Cont	Cont		
SHF Wideband Replacement	FFP	Titan, Stafford, VA	0.000	0.842	02/06	0.000		0.000		0.000		Cont	Cont		
LMST Contractor Support	FFP	NGIT, Stafford, VA	0.000	0.515	10/05	0.320	01/07	0.051	10/07	0.044	10/08	Cont	Cont		
LCE (Networks) Development	FFP	Titan, Stafford, VA	0.000	0.270	02/06	0.270	01/07	0.320	10/07	0.312	10/08	Cont	Cont		
WCR Program Support	FFP	NGIT, Stafford, VA	0.118	0.000		0.440	01/07	0.000				Cont	Cont		
WCR Contract Adv & Asst	FFP	Titan, Stafford, VA	0.000	0.000		0.370	01/07	0.000				Cont	Cont		
Subtotal Support			0.118	1.677		1.450		0.471		0.456		Cont	Cont		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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	
CONDOR IOT&E	WR	MCOTEA	0.000	0.200	05/06	0.400	02/07	0.400	11/07	0.200	11/08	Cont	Cont		
WCR Integration Testing	FFP	MCTSSA, CA/TBD	0.000	0.000		0.050	02/07	0.000				Cont	Cont		
WCR MOT&E	FFP	MCOTEA	0.000	0.000		0.250	01/07	0.000				Cont	Cont		
Subtotal T&E			0.000	0.200		0.700		0.400		0.200		Cont	Cont		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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	
CONDOR Program Support, Contract Adv & Asst	FFP	Titan, Stafford, VA	0.000	0.925	10/05	0.925	01/07	1.300	11/07	1.300	11/08	Cont	Cont		
Subtotal Management			0.000	0.925		0.925		1.300		1.300		Cont	Cont		
Remarks:															
Total Cost			0.288	11.843		14.557		10.259		10.208		Cont	Cont		

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 O

PROGRAM ELEMENT
0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME
C2275 Joint Tactical Radio Systems

TACTICAL SATELLITE COMMUNICATION TERMINAL (LMST)

Fiscal Year	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	Total
Milestone III (procurement)			◆								
Contract EPLA Award		◆									
Terminal Deliveries/Fielding			■	■							
IOC			◆								
FOC					◆						
Ka-band development						■					
Integration Fielding Ka-Band Upgrades							■	■			
IOC							◆				
FOC									◆		

Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	0.921	0.700	0.201	0.204	0.302	0.304	0.312	0.321	Cont	Cont
(U) PMC BLI# 463300 Radio Systems (LMST)	10.107	5.486	5.004	1.423	1.261	1.510	1.432	1.472	Cont	Cont

Exhibit 4/4a, Schedule Profile/Detail

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 O

PROGRAM ELEMENT
0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME
C2275 Joint Tactical Radio Systems

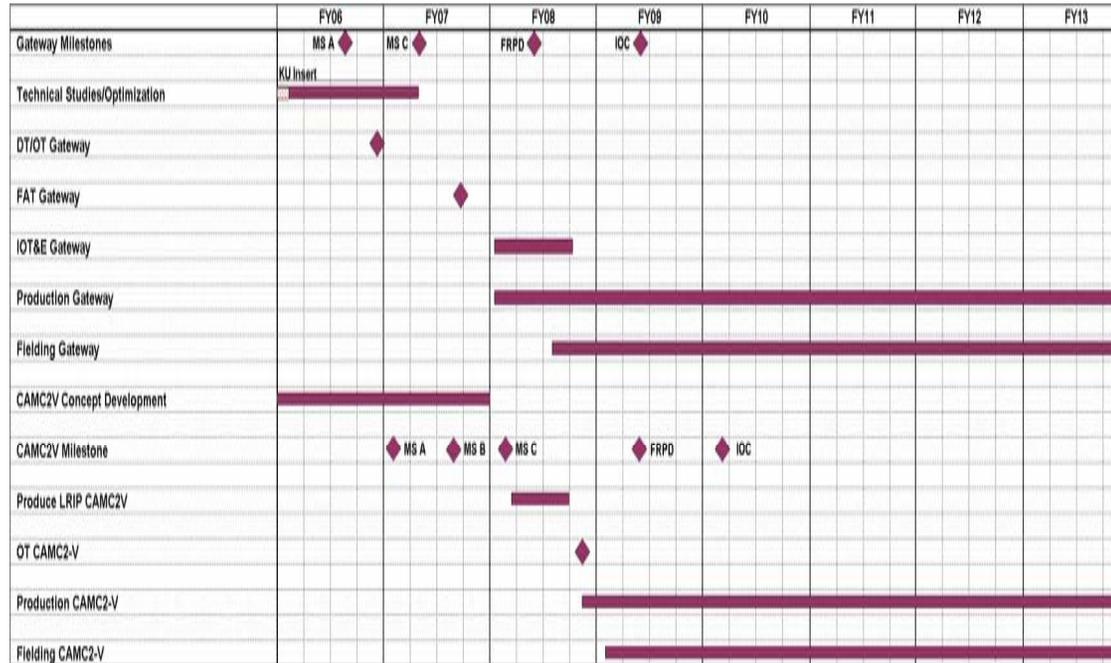
LMST SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Terminal Deliveries						
IOC (2Q03)						
FOC		2ndQtr				
Ka-band Development			1st-4th Qtr			
Ka-band Integration						
IOC			4th Qtr			
FOC					4th Qtr	

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 O

PROGRAM ELEMENT
0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME
C2275 Joint Tactical Radio Systems

Command & Control On-the-move Network, Digital Over-the-horizon Relay (CONDOR)



Program Funding Summary
(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	4.752	5.472	5.101	6.423	1.780	0.916	0.922	0.947	Cont	Cont
(U) PMC BLI# 463300 CONDOR	3.583	0.000	8.545	8.365	5.993	0.000	0.000	0.000	0.000	26.486

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

PROJECT NUMBER AND NAME

RDT&E, N /BA 7 O

0206313M Marine Corps Communication Systems

C2275 Joint Tactical Radio Systems

CONDOR SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	2012	2013
Milestones B and C		2Q						
Gateway Optimization	1Q							
DT/OT (Gateway)		4Q						
FAT Gateway			3Q					
IOTE Gateway			1Q---3Q					
Production (Gateway)			1Q-----4Q					
Fielding (Gateway)			3Q-----4Q					
CAMC2V Concept Development	1Q-----4Q							
CAMC2V Milestone A, B, C		1Q 3Q	1Q					
Produce LRIP CAMC2V			1Q--3Q					
OT CAMC2-V			4Q					
Production CAMC2-V			4Q					4Q
Fielding CAMC2-V				1Q-----4Q				

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		0206313M Marine Corps Communications Sys			C2276 Communications Switching & Control Systems				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost		3.497	4.477	4.783	2.574	0.811	0.826	0.326	0.335
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
(U) The Network Planning and Management (NPM) is a portfolio of communications planning and Network Management System (NMS) applications for use throughout the Marine Air									
(U) The Transition Switch Module (TSM) will provide a flexible Unit Level Switch that bridges legacy Tri-Tac switches with current commercial technology, providing maneuver element									
(U) The Tactical Data Network (TDN) augments the existing Marine Air Ground Task Force (MAGTF) communications infrastructure to provide the commander an integrated data network,									
(U) The Expeditionary Command and Control Suite (ECCS) is a transit case solution that provides SIPRNET email and web access, secure VTC, C2PC/COP and collaborative planning									
(U) The First In Command and Control System (FICCS) is an integrated, processor-controlled communications and management system, housed in a S-788/G Lightweight Multipurpose									
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.224	0.000	0.000	0.000				
RDT&E Articles Qty									
JNMS: Program Management and Support									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.527	1.803	2.190	0.000				
RDT&E Articles Qty									
NPM: Develop unique USMC models for JNMS and Developmental work for SPEED Net Centric enhancements.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		1.714	0.000	0.000	0.000				
RDT&E Articles Qty									
TSM: Integration Testing and Training Device Engineering									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.931	0.000				
RDT&E Articles Qty									
TSM: Development CBT for TSM training									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000	0.941				
RDT&E Articles Qty									
TSM: Development of Global Satellite Mobile Telephone.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.096	1.500	1.510	1.008				
RDT&E Articles Qty									
ECCS: Analysis of alternatives life cycle mode									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.381	1.174	0.000	0.000				
RDT&E Articles Qty									
FICCS: Development Lab Modification at Darlington									

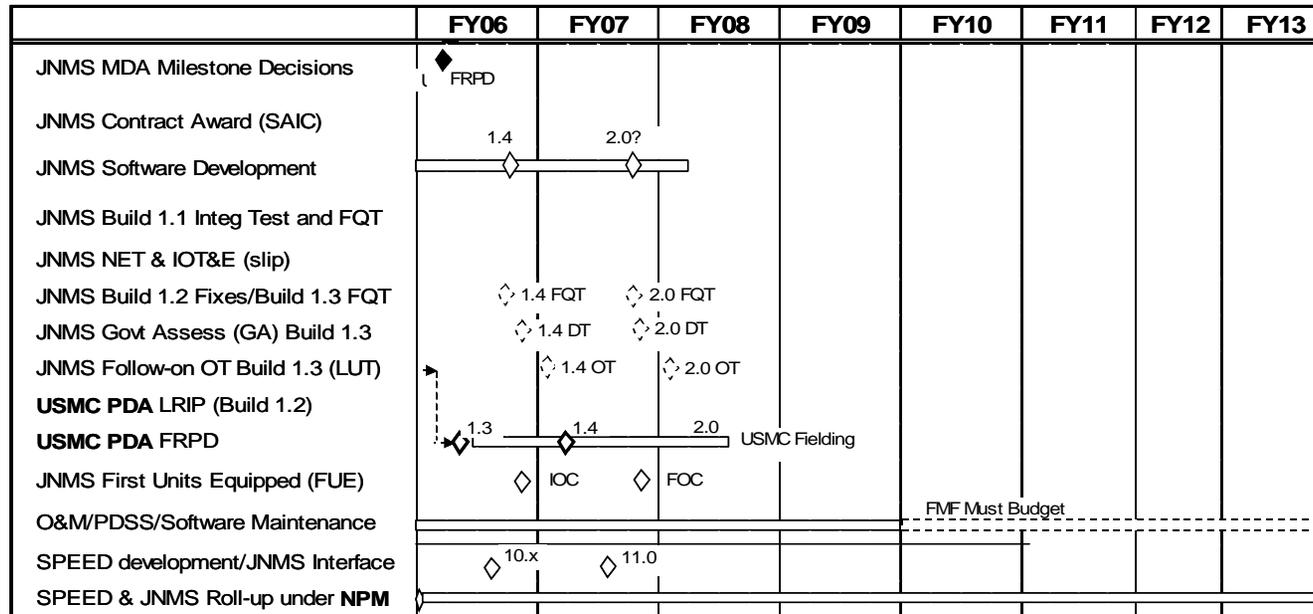
EXHIBIT R-2a, RDT&E Project Justification			DATE:							
			February 2007							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME							
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2276 Communications Switching & Control Systems							
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost			0.000	0.000	0.000	0.000				
RDT&E Articles Qty										
FICCS: Development of SPEED Mobile Training										
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost			0.555	0.000	0.152	0.625				
RDT&E Articles Qty										
TDN: Test and Evaluate integrated software requirements										
(U)										
Total \$			3.497	4.477	4.783	2.574				
(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:			6.127	4.494	4.298	3.499				
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions										
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings			-2.489		0.455	-0.945				
(U) SBIR/STTR Transfer			-0.145							
(U) Minor Affordability Adjustment			0.004	-0.017	0.030	0.020				
(U) FY 2008 President's Budget:			3.497	4.477	4.783	2.574				
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 BLI 463400 Communications Switching and Control Systems										
NPM (JNMS)	6.412	11.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.739
ECCS	0.000	0.000	0.000	6.950	10.069	8.545	0.000	0.000	0.000	25.564
FICCS	11.430	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.430
TSM	99.965	89.707	12.415	18.919	61.382	1.903	0.000	0.000	0.000	284.291
TACTICAL DATA NETWORK (TDN)	102.735	111.439	13.203	12.839	35.419	15.234	20.473	3.506	Cont	Cont

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 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2276 Communications Switching & Control Systems
<p>(U) Related RDT&E: Not Applicable.</p> <p>(U) D. ACQUISITION STRATEGY NPM: NPM uses the Joint Army-led acquisition strategy for JNMS. This is an evolutionary strategy with an initial Build to include all KPP and Threshold requirements. It is followed by pre-planned Builds to incorporate Objective requirements. The JNMS contract method is competitive with a Cost Plus contract for development that is centrally funded by the Army, except for any unique Service requirements. Services are responsible for procurement, fielding and support costs. The production contract is Fixed Price and the fielding and support is Time and Material (T&M). The JNMS acquisition strategy emphasizes the use of Commercial Off The Shelf (COTS) and Government-off-the-Shelf (GOTS) products. The SPEED acquisition strategy is for spiral development. The SPEED contract method is through a sole source Basic Purchase Agreement (BPA) using Fixed Price Task Orders based on the developers GSA schedule for manhours.</p> <p>(U) D. ACQUISITION STRATEGY TSM: calls for the use and integration of proven commercial switching technologies of sufficient maturity for production. After completing DT/SIT using FY06 funds, this program will achieve milestone C and begin an Urgent and Compelling Procurement/Production and Fielding. This program will begin full-rate production and fielding in FY07. All R&D efforts will be tested prior to incorporating them into the TSM, or delivering support to the Op Forces.</p> <p>(U) D. ACQUISITION STRATEGY ECCS: ECCS will use the evolutionary acquisition strategy and pursue a competitive firm fixed price contract. Major concerns will be interoperability and compatibility with existing systems and components. R&D effort will focus on developing and integrating "miniaturized" version of existing components. Emerging technologies such as VoIP and Secure Wireless will also be addressed in the out year R&D effort.</p> <p>(U) D. ACQUISITION STRATEGY FICCS: FICCS is an evolutionary acquisition strategy. RDTE funds in FY07 will be used to test and evaluate Commercial Off the Shelf (COTS) emerging technology items for possible integration into the JECCS production units.</p> <p>(U) D. ACQUISITION STRATEGY TDN: TDN's is a evolutionary acquisition strategy. As new products and industry standards are produced, they are to be tested and integrated into TDN equipment. RDTE funding in FY08 and FY09 are to be used to test and evaluate Commercial Of The Shelf (COTS) items which will be integrated into TDN Gateways and Data Distribution Systems (DDS) to fulfill ORD requirements.</p> <p>(U) E. Major Performers: FY06 - (NPM) NGIT, Winterpark, FL. CECOM, Momouth, System Version 1.4 development variant ECP JUN 06 FY 06/08/09 - (TSM) EDO/Darlington, Wando, SC. Develop training documentation and test package, MAR 06/FEB 08/DEC 08 FY06 - (ECCS) - Tecolote Research, Goleta CA. Analysis of alternatives MAR 06 FY07/08 (ECCS) - Contractor TBD. Develop and test miniaturized components that provide DISN services while On-The-Move/Enroute. NOV 06/NOV 07 FY06 - (FICCS) EDO/Darlington, Inc., Wando, SC. Lab modification JUN 06 FY07 (FICCS) - EDO/Darlington, Inc., Wando, SC. Integration of VoIP, Secure Wireless, and ATM Technologies, FEB 07 FY06/08/09 (TDN) - Cornerstone Building Group, San Diego CA, New equipment testing and support. APR 06/ JAN 08/ JAN 09</p>		

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		0206313M Marine Corps Communications Sys				C2276 Communications Switching & Control Systems								
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
NPM (JNMS)	CP	CECOM, Monmouth, NJ	0.2650	0.332	06/06	0.550	01/07	0.000		0.000		Cont	Cont	
NPM (SPEED)	FFP	MCSC, Quantico, Va	1.9980	0.195	06/06	0.850	01/07	2.190	01/08	0.000		Cont	Cont	
ECCS	FFP	Tecolote Research, CA	0.0000	0.096	03/06	0.600	01/07	0.600	11/07	0.400	11/08	Cont	Cont	
FICCS	CPFF	EDO/Darlington, Inc. SC	0.0000	0.381	06/06	0.735	02/07	0.000		0.000	02/09	Cont	Cont	
TSM	FFP	EDO/Darlington, Inc. SC	6.4660	1.151	03/06	0.000		0.931	02/08	0.941	12/08	Cont	Cont	
Subtotal Product Dev			9.1310	2.155		2.735		3.721		1.341		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
NPM (Program Support)	WR	MCSC/MCTSSA	0.3140	0.224	06/06	0.150	01/07	0.000		0.000		Cont	Cont	
NPM (Support Contractor)	FP	OSEC, Stafford, Va	1.0310	0.000		0.253	01/07	0.000		0.000		Cont	Cont	
TSM (Support Contractor)	RC	TITAN, Stafford, Va		0.563	01/06									
ECCS	FFP	Tecolote Research, CA	0.0000	0.000		0.600	01/07	0.609	11/07	0.308	11/08	Cont	Cont	
FICCS	CPFF	Support Contractor	0.4500	0.000		0.418	01/07	0.000		0.000		Cont	Cont	
Subtotal Support			1.7950	0.787		1.421		0.609		0.308		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
ECCS	WR	MCOTEA	0.0000	0.000		0.300	01/07	0.301	12/07	0.300	12/08	Cont	Cont	
FICCS	WR	MCTSSA	0.2570	0.000	11/05	0.021	03/07	0.000		0.000		Cont	Cont	
TDN	FFP	MCTSSA	0.0000	0.555	04/06	0.000		0.152	01/08	0.625	01/09	Cont	Cont	
Subtotal T&E			0.2570	0.555		0.321		0.453		0.925		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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 07 Cost	FY 07 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Subtotal Management			0.0000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
Total Cost			11.1830	3.497		4.477		4.783		2.574		Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2276 Communications Switching & Control Systems

NPM (JNMS)



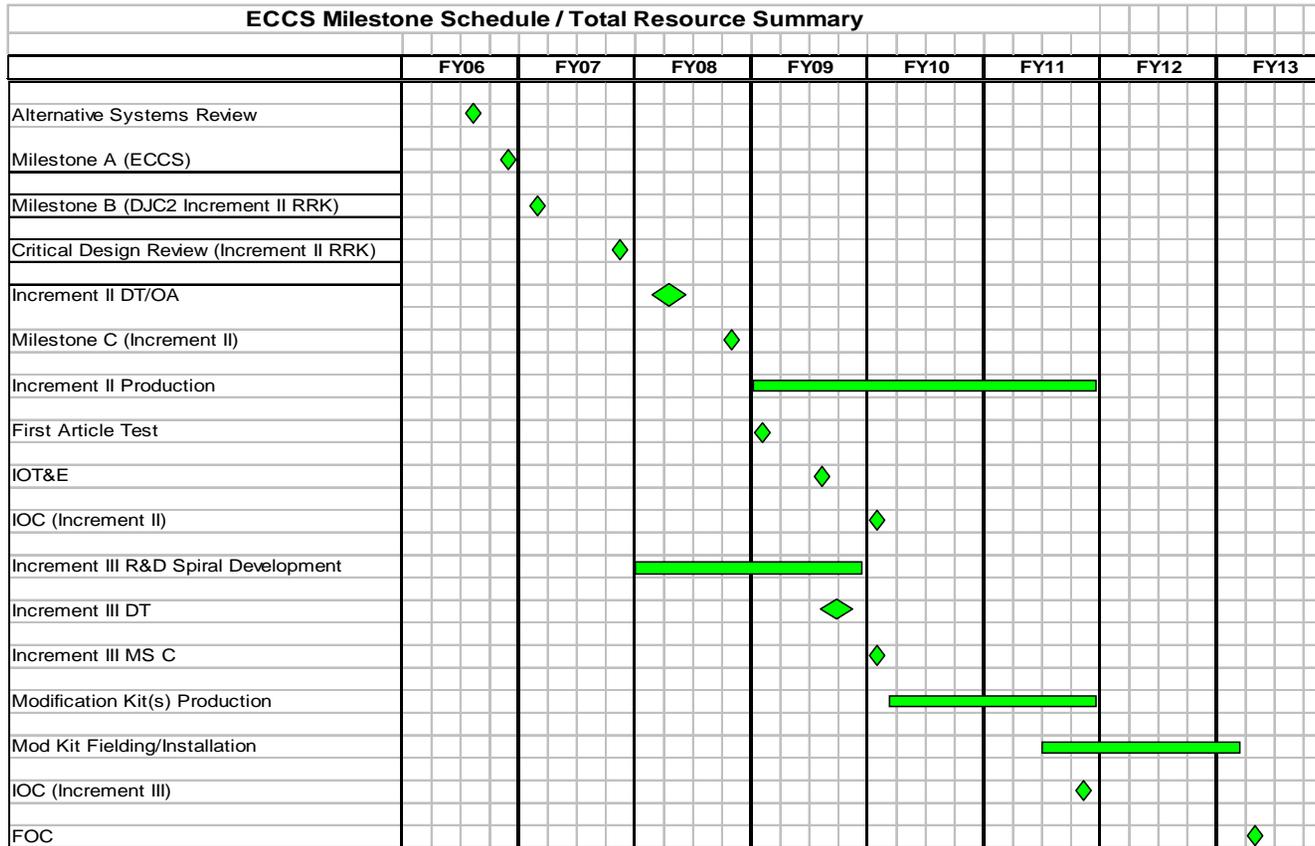
Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	0.751	1.803	2.190	0.000	0.000	0.000	0.000	0.000	Cont	Cont
(U) PMC BLI# 463400 CommSwitch& Ctl Sys -NPM(JNMS)	6.412	11.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.739

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2276 Communications Switching & Control Systems

ECCS



<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>FY 2012</u>	<u>FY 2013</u>	<u>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>										
(U) RDT&E,N	0.096	1.500	1.510	1.008	0.504	0.504	0.000	0.000	0.000	5.122
(U) PMC, BLI#463400 Comm Switch & Control Sys (ECCS)	0.000	0.000	0.000	6.950	10.069	8.545	0.000	0.000	0.000	25.564

Exhibit R-4/4a Schedule Profile/Detail					DATE: February 2007								
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communications Sys			C2276 Communications Switching & Control Systems								
ECCS SCHEDULE DETAIL				FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Alternative Systems Review						3Q							
Milestone A (ECCS)						4Q							
Milestone B (DJC2RRK)							1Q						
Critical Design Review (DJC2RRK)								4Q					
DT/OA								1Q-2Q					
Milestone C (Increment II)									4Q				
Increment II Production, Delivery & Fielding										1Q-----4Q			
First Article Testing									1Q				
Initial Operation T&E									3Q				
Initial Operation Capability (increment II)										1Q			
Increment III R&D Spiral Development										1Q-----4Q			
Increment III DT										3Q-4Q			
Milestone C (Increment III)										1Q			
Modification Kit(s) Production											2Q-----4Q		
Mod Kit Fielding/Installation												3Q-----1Q	
IOC Increment III											4Q		
FOC													2Q

UNCLASSIFIED

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 0206313M Marine Corps Communica		PROJECT NUMBER AND NAME C2277 Systems Engineering & Integration																																									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013																																				
Project Cost		10.613	8.855	6.833	6.988	7.197	7.409	8.851	9.095																																				
RDT&E Articles Qty																																													
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(U) This project provides funds for engineering, test, and evaluation activity, which ensures that the systems being developed within the Program Element (PE) employ consistent standards for interoperability and, to the maximum extent feasible, use hardware, and software which is uniform across programs.</p> <p>Joint Distributed Engineering Plant (JDEP) directly supports the DoD mandated directive, CJCSI 6212.01D, to evaluate the interoperability of the Federation of Systems (FedOS) Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) configurations that support joint forces, evaluate interoperability of new and fielded acquisition system, and provide an environment for engineering analysis to correct systems deficiencies and develop new capabilities that can operate in the joint environment.</p> <p>Joint Interoperability of Tactical Command and Control Systems (JINTACCS) is a Joint Chiefs-of-Staff (JCS)/DoD-mandated program for joint development, implementation, and testing of tactical data links and US Message Text Format (MTF) under the direction of the Defense Information Systems Agency (DISA) and Office of the Secretary of Defense/Networks and Information Integration (OASD/NII). iaaw Commander Joint Chiefs of Staff (CJCSI) 6610.01B and CJCS16241.04 for USMTF.</p> <p>Coalition Warrior Interoperability Demonstration (CWID) (a.k.a. Joint Warrior InterOperability Demonstration (JWID)) is a Joint Chiefs-of-Staff (JCS) and a Chairman of the Joint annual event. CWID remains the premier event to investigate interagency and coalition interoperability problems. CWID defines solutions that can be applied in the operational community. CWID's mission is to conduct military operations to deter, prevent, and defeat threats and aggressions aimed at the US, its territories and assigned areas of responsibilities as directed by the President or Secretary of Defense.</p> <p>Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, Coordination. (MAGTF C4I SEI&C) Provides for the centralized planning and execution of Marine Corps Enterprise Information Technology and National Security Systems. It develops, certifies and manages the configurations of the Marine Corps Enterprise Systems and Technical Architecture products and uses these to support enterprise-level systems engineering. It is used to conduct an annual system of systems testing called the Federation-of-Systems (FedOS) to ensure joint interoperability and the performance of critical Marine Corps systems directly supporting the Marine Corps Operating Forces. It is used to conduct direct MEU/MEF support in system integration testing with USN (Part of Deploying Group Systems Integration Testing (DGSIT)) and workups for MEF deployments. It is also used to support our coordination and involvement in DoD initiatives that include ForceNet, Global Information Grid Enterprise Services (GIGES), and other Deployable Information Systems Architecture DISA/NETWARCOM efforts.</p>																																													
<p>(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:</p> <table border="1"> <tr> <td colspan="2">COST (\$ in Millions)</td> <td>FY 2006</td> <td>FY 2007</td> <td>FY 2008</td> <td>FY 2009</td> </tr> <tr> <td colspan="2">Accomplishment/Effort Subtotal Cost</td> <td align="right">1.292</td> <td align="right">1.465</td> <td align="right">1.500</td> <td align="right">1.533</td> </tr> <tr> <td colspan="2">RDT&E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>JDEP: Conducted FedOS assessment, submitted 30 ICTO requests, and identified and fixed interoperability issues. Plans are to conduct FedOS with involvement from the USA's Army Software Block 2 participate in JFCOM's JCAS #2 test event and continue to add</p> <table border="1"> <tr> <td colspan="2">COST (\$ in Millions)</td> <td>FY 2006</td> <td>FY 2007</td> <td>FY 2008</td> <td>FY 2009</td> </tr> <tr> <td colspan="2">Accomplishment/Effort Subtotal Cost</td> <td align="right">1.423</td> <td align="right">1.542</td> <td align="right">1.586</td> <td align="right">1.625</td> </tr> <tr> <td colspan="2">RDT&E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>JINTACCS: Joint development, implementation, and testing of data links under the direction of the DISA and OASD/N11.</p>										COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	Accomplishment/Effort Subtotal Cost		1.292	1.465	1.500	1.533	RDT&E Articles Qty						COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	Accomplishment/Effort Subtotal Cost		1.423	1.542	1.586	1.625	RDT&E Articles Qty					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009																																								
Accomplishment/Effort Subtotal Cost		1.292	1.465	1.500	1.533																																								
RDT&E Articles Qty																																													
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009																																								
Accomplishment/Effort Subtotal Cost		1.423	1.542	1.586	1.625																																								
RDT&E Articles Qty																																													

UNCLASSIFIED

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 0206313M Marine Corps Communica	PROJECT NUMBER AND NAME C2277 Systems Engineering & Integration			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	1.603	1.251	1.291	1.322	
RDT&E Articles Qty					
CWID: to deter, prevent, and defeat threats and aggressions aimed at the US.					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	6.295	4.597	2.456	2.508	
RDT&E Articles Qty					
MAGTF SEI&C: Engineering and technical support for configuration management of MAGTF C4I systems. Review and submittal of multiple ISPs and TISPs. Pre deployment assistance to I MEF and multiple MEUs. Participation in ForceNet, NCES, GIGES and other Joint DoD initiatives. Plans are continued support of activities to support the interoperability and jointness of the USMC Enterprise IT/NSS systems.					
(U) Total \$	<u>10.613</u>	<u>8.855</u>	<u>6.833</u>	<u>6.988</u>	
(U) PROJECT CHANGE SUMMARY:	FY 2006	FY2007	FY 2008	FY 2009	
(U) FY 2007 President's Budget:	9.537	8.919	9.237	9.417	
(U) Adjustments from the President's Budget:					
(U) Congressional Program Reductions					
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	0.546		-2.442	-2.488	
(U) SBIR/STTR Transfer					
(U) Minor Affordability Adjustment	0.007				
(U) FY 2008 President's Budget:	10.090	8.919	6.795	6.929	
CHANGE SUMMARY EXPLANATION:					
(U) Funding: See Above.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					
(U) C. OTHER PROGRAM FUNDING SUMMARY: N/A					
(U) Related RDT&E:					
(U) PE 0206623M, Marine Corps Ground Combat/Supporting Arms Systems					
(U) D. ACQUISITION STRATEGY:					
JDEP, JINTACCS, CWID, & MAGTF SE&IC: N/A as these are non-acquisition programs.					
(U) E. Major Performers: FY02-FY05 Northrup Grumman, Stafford VA - Level of effort contract for logistics support, engineering, analytical, acquisition and program management for C4I programs in the areas of systems architectures, configuration manage					

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			0206313M Marine Corps Communication Systems				C2277 Systems Engineering & Integration						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
CWID	MIPR	NSWC Dahlgren	3.223	0.755	12/05	0.752	12/06	0.750	12/07	0.750	12/08	Cont	Cont
CWID	WR	MCSC Quantico, VA	0.136	0.013	12/05	0.032	12/06	0.039	12/07	0.050	12/08	Cont	Cont
CWID	MIPR	JTIC -INDIAN HEAD	0.156	0.033	12/05	0.045	12/06	0.045	12/07	0.050	12/08	Cont	Cont
Subtotal Product Dev			3.515	0.801		0.829		0.834		0.850		Cont	Cont
Remarks:													
Cost Categories (Tailor to WBS, or System/Item Requirements)	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
CWID	C/FFP	NGIT, Stafford VA	2.021	0.279	12/05	0.422	12/06	0.450	12/07	0.461	12/08	Cont	Cont
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	6.847	2.813	10/05	1.695	10/06	1.401	10/07	1.508	10/08	Cont	Cont
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.846	0.094	10/05	0.145	10/06	0.145	10/07	0.145	10/08	Cont	Cont
MAGTF SEI&C	WR	MCTSSA, Cp Pndltm, CA	1.423	1.042	10/05	1.083	10/06	0.850	10/07	0.850	10/08	Cont	Cont
MAGTF SEI&C	C/FFP	GD-AIS, Stafford VA	0.000	1.015	08/06	0.000		0.000		0.000			
JDEP	T&M	SENSIS Syracuse NY	0.662	0.052	05/06	0.072	05/07	0.000		0.000		Cont	Cont
JDEP	MPR	NSWC - Crane	0.464	0.182	02/06	0.329	05/07	0.151	12/07	0.151	12/08	Cont	Cont
JINTACCS	C/FFP	NGIT, Stafford VA	1.265	0.823	10/05	0.901	10/06	0.401	10/07	0.401	10/08	Cont	Cont
JINTACCS	WR	MCTSSA, Cp Pndltm, CA	1.525	0.600	10/05	0.641	10/06	0.641	10/07	0.641	10/08	Cont	Cont
Subtotal Support			15.053	6.900		5.288		4.039		4.157		Cont	Cont
Remarks:													
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
JDEP	WR	MCTSSA, Cp Pndltm, CA	1.832	1.058	10/05	1.064	10/06	1.065	10/07	1.065	10/08	Cont	Cont
MAGTF SEI&C	MIPR	MITRE	3.389	1.521	10/05	1.381	10/06	0.500	10/07	0.500	10/08	Cont	Cont
Subtotal T&E			5.221	2.579		2.445		1.565		1.565		Cont	Cont
Remarks:													
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	0.733	0.333	10/05	0.293	10/06	0.395	10/07	0.416	10/08	Cont	Cont
Subtotal Management			0.733	0.333		0.293		0.395		0.416		Cont	Cont
Remarks:													
Total Cost			24.522	10.613		8.855		6.833		6.988		Cont	Cont

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		0206313M Marine Corps Communications System			C2278 Air Defense Weapons Systems				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		14.443	6.399	1.859	4.587	3.967	3.723	3.823	3.910
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>(U) This project encompasses two sub-element programs which are part of the Integrated Air Defense System for the Marine Corps.</p> <p>The Complementary Low Altitude Weapons System (CLAWS) is a mobile ground based air defense missile system designed to defeat threat cruise missiles, unmanned aerial vehicles, rotary wing and fixed wing aircraft. CLAWS shall provide a rapidly deployable, mobile, high firepower, all-weather, standoff air defense system to defend Marine Expeditionary Forces and Naval Forces from attack by cruise missiles, aircraft and Unmanned Aerial Vehicles (UAVs). It will complement existing Short Range Air Defense (SHORAD) capabilities and will interface with current and proposed Marine Command and Control Systems, sensors, and data paths. Note: As of 2 May 06, the CLAWS program was suspended prior to fielding while awaiting formal program termination notification.</p> <p>Ground Based Air Defense Transformation (GBAD-T): Based upon the deployment of the Low Altitude Air Defense (LAAD) Battalions and their employment of the Stinger Missile, GBAD-T transforms Air Defense equipment through technology insertion and equipment repackaging to address capability gaps as the result of equipment obsolescence and the emergent and evolving threats to the Marine Air Ground Task Force (MAGTF). GBAD-T consist of four efforts: 1) sustainment of currently fielded LAAD equipment/assets; 2) fielding and support of the Advanced Man-Portable Air Defense System (A-MANPADS) that replaces the Avenger Weapon System and existing MANPADS vehicles; 3) replacing the Remote Terminal Unit (RTU), an effort that replaces an 18 pound laptop computer that provides Situational Awareness and Command and Control to the Stinger and MANPAD teams. The RTU replacement will interface with and be capable of receiving a Common Aviation Command and Control Systems (CAC2S) broadcasted link; and 4) Replacing the unsupported and obsolete Stinger Missile Night Sight with the PAS-13 Thermal Sight. R&D is required to incorporate the Stinger Missile reticule and hardware interface and execute developmental testing. The PAS-13 provides twice the range and weight.</p> <p>Battlefield Target Identification System (BTIS)/Mounted Cooperative Target ID System(MCTIS) in FY-08 and beyond - will be a cooperative battlefield target identification device that employs encrypted, Ka band, millimeter wave, question and answer technology. It will consist of interrogator and transponder antennae, transceiver, and communications/electrical interface unit. It will be fielded as two variants: interrogator/transponder system for Expeditionary Fighting Vehicles (EFVs), Light Amphibious Vehicles (LAVs), and M1A1s; and transponder-only system for combat support and combat service support vehicles. When fielded, mounted weapon systems will have the capability to identify targets as friendly or unknown, at ranges to 6 km, before engaging them. They and all other designated vehicles will also possess the capability to rapidly identify themselves as friendly to weapon systems equipped with comparable systems prior to being engaged. As a result, incidents of fratricide and collateral damage will decline, while the range at which targets may be engaged without fear of misidentification will increase dramatically. The system will be interoperable with Joint, Allied, and Coalition forces' cooperative target identification systems.</p> <p>The Joint Combat Identification Evaluation Team (JCIET) is a superb opportunity to conduct quality assurance testing of services' systems operating in a joint environment. It conducts assessments in a number of venues including: Military Operations in Urban Terrain (MOUT) exercises, Advanced Concept Technology Demos (ACTD), Joint Training exercises, Combined Armed Training Exercises (CAXs), and Weapons Tactics Instruction (WTI) events. Its mission is to improve Tactics, Techniques and Procedures (TTP) across all Combat Identification mission areas. (It is not an acquisition program, therefore it does not have specific milestone dates.) The JCIET program resides in C2273 in FY06 within the same P.E.</p>									
(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		3.111	0.000	0.000	0.000				
RDT&E Articles Qty									
CLAWS: Complete Increment 0 Developmental Testing (DT), Operational Testing (OT), and develop a capability with the CLAWS Increment I launcher.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.720	0.000	0.000	0.000				
RDT&E Articles Qty									
CLAWS: Interim Contract Support for Pre-Fielding Increment I assets.									
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		1.514	2.418	0.000	0.000				
RDT&E Articles Qty									
CLAWS: Program Management Support.									

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	0206313M Marine Corps Communications System		C2278 Air Defense Weapons Systems	
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.772	0.647	1.135
RDT&E Articles Qty				
JCIET: Data and analysis for exercise. Funding prior to FY07 is found in Project C2273 within this PE.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.089	0.015	0.015
RDT&E Articles Qty				
JCIET: Program management support Funding prior to FY07 is found in Project C2273 within this PE.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.780	0.000	0.000	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Program Management Services				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	3.440	0.000	0.697	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Product Development (CAC2S Integration)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.046	0.000	0.000	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Product Development (Remote Terminal Unit Replacement)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.620	0.000	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Integration development/test (PAS-13 Integration)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.440	0.000	0.500	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Support Costs (MCTSSA/MCCDC/Crane support)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.437
RDT&E Articles Qty				
GBAD TRANSFORMATION: Product Development (Multi Mission Missile)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.000	0.275	0.000	0.000
RDT&E Articles Qty				
BTIS: Program Management Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.000	1.000	0.000	0.000
RDT&E Articles Qty				
BTIS: Test and evaluation as part of the coalition CID ACTD analysis				

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	0206313M Marine Corps Communications System		C2278 Air Defense Weapons Systems							
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009						
Accomplishment/Effort Subtotal Cost	1.060	1.145	0.000	0.000						
RDT&E Articles Qty										
BTIS: Engineer Design Model										
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009						
Accomplishment/Effort Subtotal Cost	0.000	0.080	0.000	0.000						
RDT&E Articles Qty										
BTIS: Life Cycle Cost Estimate										
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009						
Accomplishment/Effort Subtotal Cost	0.332	0.000	0.000	0.000						
RDT&E Articles Qty										
MCTIS (BTID): Support software development										
(U) Total \$	14.443	6.399	1.859	4.587						
(U) PROJECT CHANGE SUMMARY:										
	<u>FY2006</u>	<u>FY2007</u>	<u>FY2008</u>	<u>FY2009</u>						
(U) FY 2007 President's Budget:	16.001	6.423	10.940	6.374						
(U) Adjustments from the President's Budget:										
(U) Congressional Program Reductions	0.009									
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings	-1.281		-8.339	-1.836						
(U) SBIR/STTR Transfer	-0.290									
(U) Minor Affordability Adjustment	0.004	-0.024	-0.742	0.049						
(U) FY 2008 President's Budget:	14.443	6.399	1.859	4.587						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: See Above.										
(U) Schedule: Not Applicable										
(U) Technical: CLAWS program was suspended prior to fielding while awaiting a formal program termination decision from MCCDC.										
(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 305100 CLAWS	0.366	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0.366
(U) PMC LINE BLI 300600 GBAD-T	2.212	6.801	1.988	12.516	11.625	14.443	14.743	15.081	Cont	Cont
(U) Related RDT&E:										
Not Applicable										

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**0206313M Marine Corps Communications System****C2278 Air Defense Weapons Systems****(U) D. ACQUISITION STRATEGY:**

(U) CLAWS: CLAWS integrates government furnished equipment (GFE), non-developmental items (NDI) and new technology to develop a surfaced launched Anti-Air launcher. CLAWS will utilize the AMRAAM (current inventory DoD missile), existing High Mobility Multi-purpose Wheeled Vehicle (HMMWV) and contractor developed missile launch platform. CLAWS completed Developmental Test (DT) in FY05 and completed Operational Test (OT) during 1st Qtr FY06.

(U) GBAD- TRANSFORMATION: Designated an Abbreviated Acquisition Program (AAP), GBAD-T effects the rapid transition from the Avenger/MANPADS weapon system to the more mobile, flexible, and maintainable Advanced MANPADS. The AAP leverages off existing contracts and is principally comprised of integrating Government Off The Shelf (GOTS) equipment and Non-developmental Items (NDI).

(U) MCTIS (BTID): Economy of scales dictate a strategy that highly leverages Joint/coalition evolutionary development and acquisition efforts efforts. The FY03- FY05 Coalition Combat ID Advanced Concept Technology Demonstration (CCID ACTD) completed in October 2005 resulted in a process that evaluated the Military Utility of a STANAG 4579 Compliant millimeter wave (mmW) Target Identification system and other technologies with the objective of identifying the best system to satisfy the Marine Corps requirement. FY04/05 efforts focused on unique system integration efforts and participation in the JFCOM sponsored operation Exercise Urgent Quest. The resultant analysis and action by the Army Marine Corps Board in March 2006 directed a Army led Component Program, which will compete for resources in the FY-08 Service POMs. As a Component lead activitey the Marine Corps will resource unique Marine Corps integration and Programmatic requirements through the System Development and Demonstration (SDD) Phase of the Program. The designated Milestone Decision Authority is anticipated to be PEO IEWS and managed by PMTIMS at Fort Monmouth, NJ.

(U) E. MAJOR PERFORMERS**CLAWS:**

FY06 Raytheon, Tewksbury, MA. Fielding/sustainment for CLAWS Increment 0 Launchers. SLAMRAAM Increment I System Development; CLAWS Increment I Launcher DT.

FY07 Raytheon, Tewksbury, MA. Program closeout.

GBAD Transformation:

FY06 Raytheon, Tewksbury, MA RTU Replacement, S/W Integration

FY06 Raytheon, Tewksbury, MA. GBAD/CLAWS Integration.

FY07 NSWC, Crane, IN. Technical Engineering Services.

FY08 Raytheon, Tewksbury, MA CAC2S Integration

FY08 NSWC, Crane, IN. Technical Engineering Services

FY09 TBD, Product Development (Multi Mission Missile)

MCTIS:

FY05-FY07 NSWC, Crane, IN Engineering Services.

FY05-FY07 MarCorSysCom (PA&E) LCCE Effort. Contractor Techolote

FY05-FY07 MarCorSysCom CEOSS support contract recompeted in Sep 04. Contractor Anteon

Exhibit R-4/a Project Schedule/Detail

DATE:

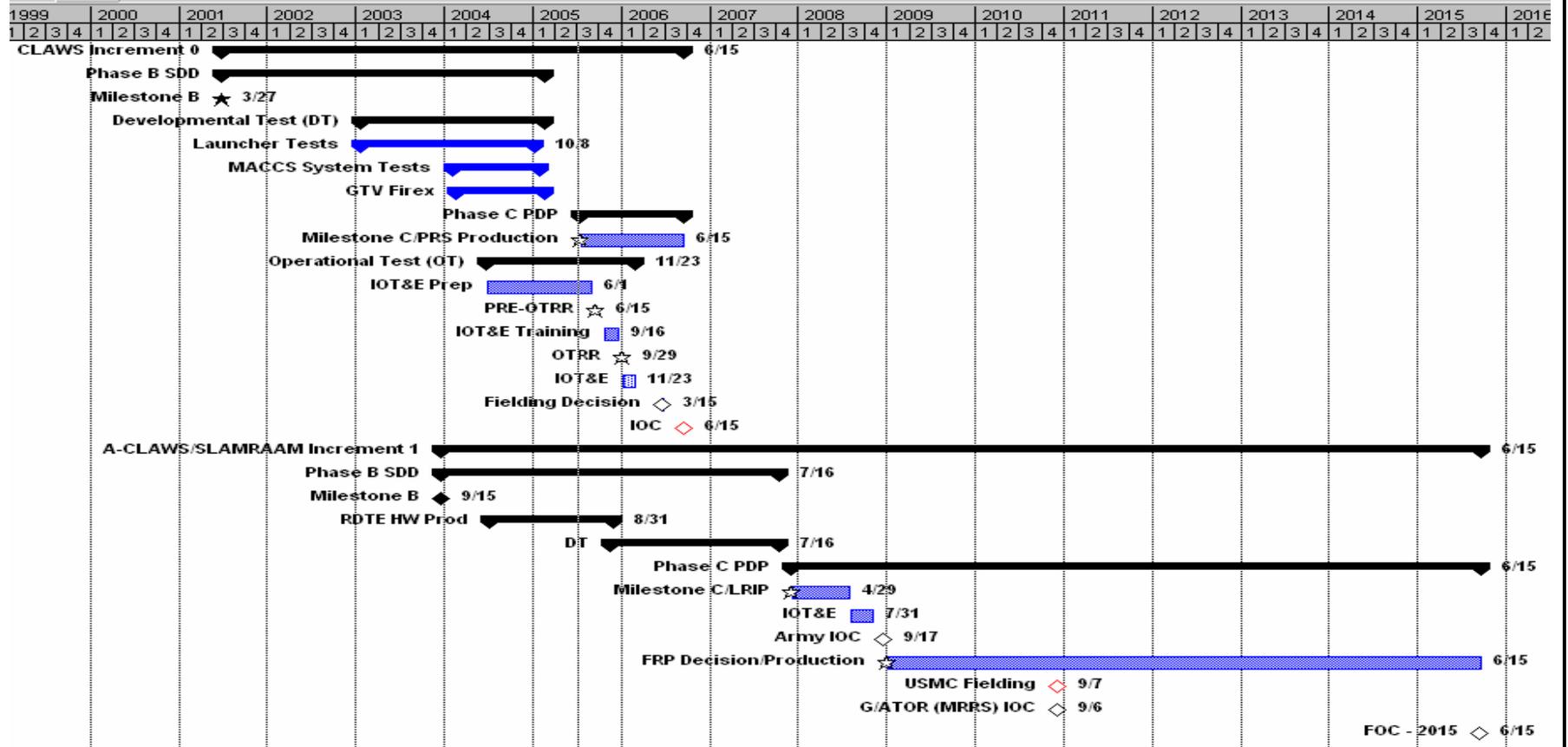
February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communication Sys

PROJECT NUMBER AND NAME
C2278 Air Defense Weapons Systems

CLAWS



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDTEN C2278	5.345	2.418	0.000	0.000	0.000	0.000	0.000	0.000		7.763
(U) PMC LINE BLI 305100 CLAWS	0.366	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.366

Exhibit R-4/4a Project Schedule/Detail		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Sys	PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems

GBAD TRANSFORMATION SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Advanced MANPADS (AAP)								
Milestone C/ Full Rate Production	1st Qtr							
Fielding Decision	2nd Qtr							
IOC	3rd Qtr							
FOC		3rd Qtr						
Remote Terminal Unit (RTU Replacement)								
IOC			1st Qtr					
FOC				3rd Qtr				
PAS-13 Thermal Sight (Stinger Reticule)								
System Development and Demonstration	4th Qtr							
Operational Testing/FUE		1st Qtr						
IOC			1st Qtr					
Multi Mission Missile								
Technology Development				1st Qtr				

Exhibit R-4/4a Project Schedule/Detail

DATE:

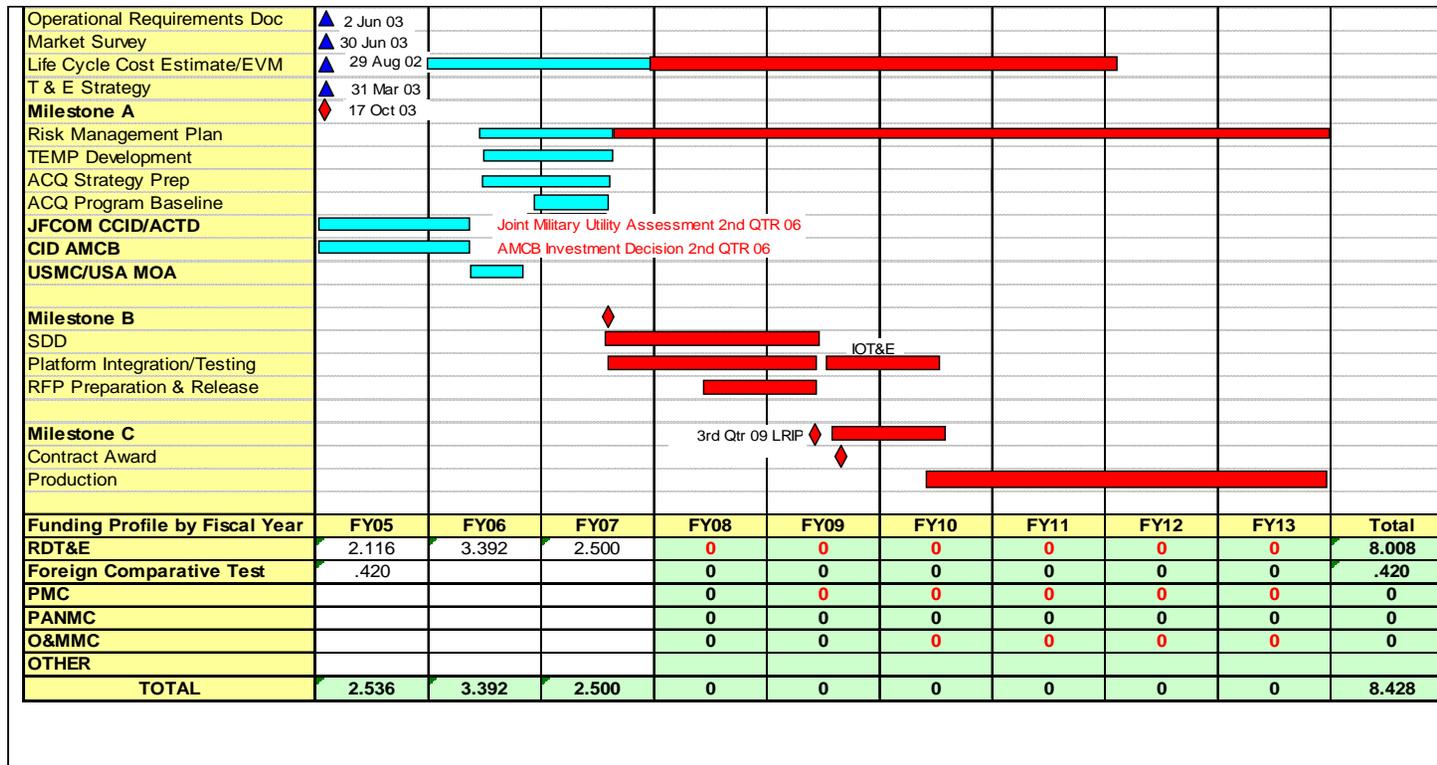
February 2007

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communication Sys

PROJECT NUMBER AND NAME
C2278 Air Defense Weapons Systems

BTID Program Schedule



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) R&D Air Def Weaps Sys (BTIS)

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) R&D Air Def Weaps Sys (BTIS)	3.392	2.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.892

EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems				C2315 Training Devices/Simulators			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost	8.513	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:								
<p>(U) Training simulators supported by this program element include Joint Simulation System (JSIMS), Closed Loop Artillery Simulation System (CLASS), Multiple Integrated Laser Engagement System (MILES 2000), Special Effect Small Arms Marking System (SESAMS), Combined Arms Command & Control Training Upgrade System (CACCTUS), MAGTF Tactical Warfare Simulation (MTWS) Enhancements, Combat Team Decision, and Range Modernization/Transformation (RMT). These training systems provide tactical weapons and decision-making skill training from entry level through Marine Air-Ground Task Force (MAGTF) staff level. Systems will be interoperable and will allow for mission planning, mission rehearsal and concept evaluation in a valid synthetic environment with objective, timely feedback. Through live, virtual and constructive simulation, the Marine Corps will have the means to train jointly, educate, develop doctrine and tactics, formulate and assess operational plans, assess warfighting situations and define operational requirements.</p> <p>NOTE: Funding for this project in FY07 and beyond is found in PE 0206623M.</p>								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:								
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost	5.757	0.000	0.000	0.000				
RDT&E Articles Qty								
CACCTUS: Initial prototype installed at 29 Palms, CA for verification and validation testing by Tactical Training Exercise Control Group (TTECG). Transitioning continues from test bed to target simulation engine. Integration of operation C4I systems with sim. Development and integration of sim interfaces and visualization tools								
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost	1.379	0.000	0.000	0.000				
RDT&E Articles Qty								
MILES: Develop Dry Fire Trigger capability, develop extended service capability for the Automatic Small Arms Alignment Fixtures (ASAAF), develop Wireless RF Detectors belt, and integrate MK19 40 mm machine gun capability into existing MILES 2000 inventory.								
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost	1.377	0.000	0.000	0.000				
RDT&E Articles Qty								
MTWS Enhancements: The MTWS support initiative includes software and system development support, training network infrastructure support, and hardware support to include: develop an HLA interface between MTWS and other simulation models, such as Joint Conflict and Tactical Simulation (JCATS) and other selected models; develop MTWS-C4I interoperability with Command and Control PC (C2PC), Army Field Artillery Tactical Data System (AFATDS), Theater Battle Management Corps System (TBMCS), and Common Aviation Command and Control System (CAC2S); enhanced man machine interface for efficient exercise generation and execution processes, and reduce the number of exercise operators and controllers; refresh computer hardware training suites, and supporting training communication network infrastructure; develop Course of Actions and Analyses (COAA) capability; rules of engagement for multi-sided warfare and organizations; and Airborne Electronic Warfare and Advanced synthetic natural environment upgrade.								
(U) Total \$	8.513	0.000	0.000	0.000	0.000	0.000	0.000	0.000

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006					
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Development		0206313M Marine Corps Communication Systems				C2315 Training Devices/Simulators					
(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:						8.806					
(U) Adjustments from the President's Budget:											
(U) Congressional Program Reductions						0.005					
(U) Congressional Rescissions											
(U) Congressional Increases											
(U) Reprogrammings						-0.055					
(U) SBIR/STTR Transfer						-0.245					
(U) Minor Affordability Adjustments						0.002					
(U) FY 2008 NAVCOMPT Budget:						8.513	0.000	0.000	0.000		
CHANGE SUMMARY EXPLANATION:											
(U) Funding: See Above.											
(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>
RDT&E, PE 26623M C2315		0.000	7.369	15.112	14.028	10.786	10.853	11.063	11.401	Cont	Cont
PMC BLI #653200 Training Devices Simulators		118.703	13.797	30.871	56.565	18.499	19.266	20.233	20.973	Cont	Cont
(U) Related RDT&E: Not Applicable.											
(U) D. ACQUISITION STRATEGY:											
(U) CACCTUS - Competitive Cost plus Fixed Fee contract (CPFF).											
(U) MILES - Competitively award Cost Plus Incentive Fee (CPIF) development contract.											
(U) MTWS Enhancements - Competitively award Cost Plus Incentive Fee (CPIF) development contract.											
(U) E. MAJOR PERFORMERS:											
Not Applicable for any programs with Training Devices/Simulators, C2315.											

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 Systems Dev		0206313M Marine Corps Communications Systems				C2510 MAGTF CSSE & SE			
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost		15.901	35.178	36.647	38.841	29.806	29.660	34.502	16.509
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>(U) The MAGTF Combat Service Support Element & Supporting Establishment (CSSE & SE) consists of mutually supporting Logistics Information Technology (IT) programs that support force deployment, planning, and execution; sustainment and distribution; and contribute to the Combatant Commander's Common Operating Picture (COP) to support rapid accurate decision making.</p> <p>Marine Common Hardware Suite (MCHS) centralizes and standardizes management and acquisition of all Tactical common computer hardware and infrastructure by adopting the Joint Defense Information Infrastructure (DII) Common Operating Environment (COE) with consolidated Integrated Logistics Support. Ensures the environment remains in synchronization with computer hardware technology hardware improvements. The mission supports the Commandant's Planning Guidance and the Marine Corps Master Plan.</p> <p>Global Combat Support System-Marine Corps (GCSS-MC) is the physical implementation of the enterprise information technology architecture designed to support both improved and enhanced MAGTF Combat Service Support functions and MAGTF Commander and Combatant Commander/Joint Task Force (JTF) combat support information requirements. As such, GCSS-MC is not a single system but a portfolio of information technology capabilities tied to discrete performance measures that support required combat service support mission objectives. The Integrated Logistics Concept (ILC) Analysis provided the foundation for logistics transformation within the Marine Corps and established a compliance response to Defense Reform Initiative Directive (DRID) 54, directing that logistics transformation be accomplished throughout the service components. Immediately following the guidance of DRID 54, the GCSS-Capstone Requirements Document (CRD) was approved by the JROC. GCSS-MC is the IT solution to accomplish the transformation and GCSS objectives. GCSS-MC is an integrated set of capabilities. The capabilities will be implemented within a bottoms-up (programs of record) approach within a portfolio of systems. The portfolio of systems contributes to the primary capabilities of GCSS-MC. External portfolios will also contribute secondary to GCSS-MC capabilities through integration strategies. Primary capabilities are supply chain and combat service support oriented.</p> <p>Secondary capabilities and aspects of some of the above are achieved through integration with the Manpower, Acquisition and other portfolios as well as integration with Joint and other Service systems. This integration will migrate the current Shared Data Environment (SDE), Total Force Structure Management System (TFSMS), and Automated Information Technology (AIT) to an integrated Detailed Planning and Current Operations System over the long-term. The capabilities are to be matched against systems remaining after the system realignment and categorization process and then assessed for compliance, alignment and cost effectiveness versus readily available COTS and GOTS products. The GCSS-MC portfolio seeks to most effectively achieve the mandated requirements through provisioning of the capabilities not extending specific systems.</p> <p>GCSS-MC is the IT solution for logistics transformation being developed by the Integrated Logistics Center (ILC). The ILC Analysis was completed during an 18-week engagement beginning in late October 1998 to early February 1999. This analysis concluded with a high-level Business Case Analysis (BCA). The BCA concluded conservatively that accomplishing the ILC actions (including re-engineered IT among others) would reduce Marine Corps inventories and reduce support requirements allowing the shifting of (2000) Marines from logistics to the battlefield by 2004 (given the current timelines). ILC action will also result in: lighter, more flexible and easier to move MAGTF; Higher Combat Service Support (CSS) responsiveness: reduced stocks and CSS footprint inside the MAGTF; Less equipment for Warfighter to manage; Rapidly scaleable and deployable CSS units that have worldwide inventory visibility. Access to more reliable, accurate and actionable information that clarifies the logistics situation awareness; near real time visibility of requests for products and services allowing higher confidence and trust in logistics; and the ability to operate with greater certainty. The resulting capability is referred to as a shared data environment.</p>									

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 Systems Dev	0206313M Marine Corps Communications Systems	C2510 MAGTF CSSE & SE			
<p>Transportation Systems Portfolio (formerly known as TC-AIMS II) funding supports the development, refinement, fielding, maintenance and sustainment of two Joint deployment programs—Integrated Computerized Deployment System (ICODES) and Aircraft Air Load Planning System (AALPS); Three Joint Sustainment programs - Cargo Movement Operations System (CMOS), Automated Manifest System - Tactical (AMS-TAC), and Global Air Transportation and Execution System (GATES); and One Bridging Technology Program Warehouse - To - War Fighter (W2W). TSP also supports software maintenance and sustainment of our existing legacy systems—MAGTF Deployment Support System II (MDSS II).</p> <ul style="list-style-type: none"> - Integrated Computerized Deployment System (ICODES). Ship load planning software application. - Automated Air Load Planning System (AALPS). Allows military air load planners to quickly and efficiently estimate airlift requirements, plan force packages, and modify aircraft loads. - Cargo Movement Operations System (CMOS) A combat support system that automates and streamlines installation level cargo movement processes for both peacetime and deployment/contingency cargo Workstations in ITO/TMO functional areas support one-time data capture for the preparation of documentation for all modes of shipment. - Automated Manifest System – Tactical (AMS-TAC). Transportation tool that utilizes AIT technologies to facilitate In-transit Visibility/ Total Asset Visibility (ITV/TAV) for DLA, US Army, USN, and USMC. - Global Air Transportation and Execution System (GATES) - provides automated cargo and passenger processing, the reporting of in-transit visibility data to the Global Transportation Network and billing to Air Mobility Command's financial management directorate. - Warehouse - To - War Fighter (W2W). Provides In-transit Visibility (ITV) for the last tactical mile of secondary repair parts. W2W is a Bridge System that provides near real-time capture of cargo movement/location through a feed to Battle Command Control System (BCS3) and provides the AS-1 transactions to the Supply Management Unit . - MDSS II (MAGTF Deployment Support System II) allows planners at the unit level to rapidly create lists of deploying equipment and personnel in response to taskings received from higher headquarters. Unit planners can compare on-hand assets to requirements and assign equipment and personnel to specific carriers for both sea deployments and air embarkations. It also provides the Marine Air Ground Task Force (MAGTF) Commander with the automated ability to plan, coordinate, manage and execute the MAGTF operations relevant to various phases of transportation. <p>Joint Forces Requirement Generation II (JFRG II) JFRG II is a GCCS segmented software application designed to provide the Department of Defense (DoD) with a Joint Services, state-of-the-art, integrated, and deployable Automated Information System (AIS) that supports strategic force movements. The JFRG II software application is based on the Marine Corps' Marine Air-Ground Task Force II (MAGTF II) software application. MAGTF II has been in existence since 1991 and is used for task planning, Time Phased Force Deployment Data (TPFDD) editing, and Joint Operational Planning and Execution System (JOPES) interfacing. JFRG II assists in the notional planning process, permits the assignment of actual units to fill notional slots, and generates TPFDD for use in executing Joint Operation Plans. JFRG II provides rapid force list creation and interfaces with the Transportation Coordinators' Automated Information for Movement System (TC-AIMS II) and JOPES. It includes a Joint Deployment Data Library (JDDL) containing reference data required to produce a JOPES-compatible TPFDD extract file. JFRG II also contains modules that include the Unit Line Number (ULN) Summary for rapid force list creation and the Force Module Summary for rapid ULN grouping. JFRG II can generate standard, executive, and ad hoc reports, perform database queries, and export or import TC-AIMS II, MDSS II and JOPES. JFRG II operates and functions in either a classified or unclassified environment. JFRG II provides Joint Services with an automated tool supporting an interim capability to meet the Chairman, Joint Chiefs of Staff (CJCS) 72-hour TPFDD generation requirement.</p> <p>Public Key Infrastructure (PKI) provides security objects and mechanisms used by PK-enabled systems and applications. The primary products of PKI are public key certificates and other certified objects used in conjunction with public key certificates (e.g. CA public key certificates, subscriber public key certificates, and CRLs). In addition to public key certificates, PKI provides on-line services (e.g.; on-line certificate status checking), and supplies authenticated attributes in public key certificates and / or attribute certificates. PKI is one of a number of security solutions used to protect information and provide attributes to enable to critical resources in the GIG, and is used concurrently with other solutions (e.g.; in-line network encryptores [INEs] to implement the defense-in-depth concept. In conjunction with PK-enabled applications, PKI is used for identification, authentication, data confidentiality and integrity, and non-repudiation security services.</p> <p>business processes within the Marine Corps. Program Office Vision: to be a supporting asset to the operation forces and program managers in the implementation of AIT solutions. This is accomplished by: 1. Maintaining a viable AIT Lab, with subject matter experts, to stay abreast of emerging technologies, test new equipment, and perform integration analysis and testing. 2. Establishing the Program Office as the central procuring activity for AIT hardware for the Marine Corps, and 3. Managing the USMC portion of the Radio Frequency Intransit Visibility (RF-ITV) fixed infrastructure. The AIT Program Office does the following to support its mission and vision: 1. Manages the USMC Radio Frequency Identification Devices In-transit Visibility (RFID ITV) system. This system consists of fixed RFID interrogators mounted at various bases and stations throughout the Marine Corps. The interrogators collect information from RFID tags and pass that information to the National ITV System. 2. The AIT Program Office is the central procuring office for AIT hardware in the Marine Corps. This will enable the Marine Corps to standardize hardware (such as bar-code scanners or passive RFID interrogators and across the Marine Corps. 3. The AIT Program Office also conducts research and development of new technologies and assists in technology insertion into applications. This R&D capability enhances the Marine Corps' capability to quickly assimilate emerging technologies and leverage them to support more efficient, accurate business processes and data capture.</p>					
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.842	0.950	0.968	0.972
RDT&E Articles Qty					

EXHIBIT R-2a, RDT&E Project Justification			DATE:		
APPROPRIATION/BUDGET ACTIVITY			February 2007		
PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 Operational Systems Dev		0206313M Marine Corps Communications Systems		C2510 MAGTF CSSE & SE	
MCHS: Environmental testing of CISC/RISC workstations.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.396	0.517	0.534	0.565
RDT&E Articles Qty					
MCHS: Environmental testing of CISC/RISC servers.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		9.185	31.446	32.898	32.330
RDT&E Articles Qty					
GCSS-MC Logistics Chain Management: Program/Engineering support, analysis, integration, development, testing, and enhancements for blocks one (1) through three (3).					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		3.341	0.000	0.000	0.000
RDT&E Articles Qty					
GCSS-MC Logistics Command and Control: Program/Engineering support, analysis, integration, development, testing, and enhancements for blocks one (1) through three (3).					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.694	0.488	0.552	0.600
RDT&E Articles Qty					
Transportation System Portfolio : Supports the development, refinement, fielding, maintenance and sustainment of two Joint deployment programs—Integrated Computerized Deployment System (ICODES) and Aircraft Air Load Planning System (AALPS); Three Joint Sustainment programs - Cargo Movement Operations System (CMOS), Automated Manifest System - Tactical (AMS-TAC), and Global Air Transportation and Execution System (GATES); and One Bridging Technology Program Warehouse - To - War Fighter (W2W). TSP also supports software maintenance and sustainment of our existing legacy systems—MAGTF Deployment Support System II (MDSS II)					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.443	1.527	1.629	1.714
RDT&E Articles Qty					
Joint Forces Requirement Generation II (JFRG II) : Funds are for software development and integration into GCCS 4.X and legacy systems from all services to pass deployment data to GCCS.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	2.159	1.873
RDT&E Articles Qty					
Public Key Infrastructure (PKI): Based on an ASD ADM, DoD PKI development will be conducted through a series of block upgrades. Transition to this approach commences in FY 06 with the initiation of Increment 1. Increment 1 will contain two enhancement categories: functional enhancements, changes that result in increased capability or functionality for the PKI and assurance enhancements, changes that result in increased levels of security and assurance and that address the mitigation of identified risks with PKI. There are 13 functional and five assurance enhancements. Additionally, PKI functionality will be expanded to the SIPRNet					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.250	0.101	0.101
RDT&E Articles Qty					
AIT: Development of software with AIT capabilities in conjunction with the DOD AIT implementation plan.					
(U) Total \$		15.901	35.178	38.841	38.155

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 Systems Dev		0206313M Marine Corps Communications Systems			C2510 MAGTF CSSE & SE					
(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:		17.453	35.311	20.874	26.271					
(U) Adjustments from the President's Budget:										
(U) Congressional Program Reductions		0.009								
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings		-1.107		15.525	12.227					
(U) SBIR/STTR Transfer		-0.458								
(U) Minor Affordability Adjustments		0.004	-0.133	0.248	0.343					
(U) FY 2008 President's Budget:		15.901	35.178	36.647	38.841					
CHANGE SUMMARY EXPLANATION:										
(U) Funding:										
(U) Schedule: As a result of technical and contractual problems with the Systems Integrator which resulted in contract termination, the GCSS-MC Program has been delayed one year. The revised schedule is reflected in the updated acquisition strategy. The program is currently on schedule as revised.										
(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>
PMC BLI 463000 CCR: MCHS Svrs/Wkstns	48.107	65.137	64.397	64.887	64.829	38.449	40.771	59.969	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: GCSS	13.969	0.000	0.000	3.310	3.212	9.403	10.536	7.302	Cont	Cont
PMC BLI 463500 COMM & ELEC INFRA SPT: PKI	1.262	0.386	0.720	0.802	0.969	1.140	1.340	1.532	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: AIT	4.292	9.680	12.953	13.383	12.029	14.665	16.585	16.758	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: MANPOWER PLANNING SYSTEMS	0.000	0.221	0.258	0.289	0.293	0.292	0.298	0.306	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: MANPOWER OPERATIONS SYSTEMS	0.814	0.847	0.577	0.769	0.858	0.563	0.654	0.674	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: TSP	3.593	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.593

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Systems Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems	PROJECT NUMBER AND NAME C2510 MAGTF CSSE & SE
<p>(U) Related RDT&E: Not Applicable.</p> <p>(U) D. ACQUISITION STRATEGY:</p> <p>Marine Corps Hardware Suites (MCHS): To insure computer hardware in the operating forces keeps pace with industry computer hardware technical improvements.</p> <p>GCSS-MC: Is a portfolio of systems. The approach is to enable Marine Corps Logistics Modernization through two main programs, Logistics Chain Management (LCM) and Logistics Command and Control (LOG C2). LOG C2 will end in FY06. GCSS-MC will pursue an Evolutionary Acquisition (EA) strategy in order to field operationally suitable and supportable capabilities in the shortest time possible. EA offers the fastest method to field this highest of Advocate priorities and allows for requirements to be time-phased as the users become more familiar with the fielded systems' strengths and weaknesses. In addition to quicker fielding, an EA approach is particularly well suited to software intensive programs and offers these benefits: rapidly delivers an initial capability with the explicit intent of delivering continuously improved capability in the future and reduces "cycle time" from identification of emergent user requirements, priorities and fielding. The GCSS-MC acquisition strategy for each program will be to deliver capabilities in Blocks. Each Block is divided into two main phases: Planning/Blueprinting and Realization/Transition. More substantial software improvement/system upgrades will be fielded with each Block, as required and prioritized by the user commur Blocks will include emergent user priorities, advanced technology improvements and expanded functionality. Each Block will repeat the complete acquisition program cycle starting with Milestone (MS) A for the first Block for LCM and MS B thereafter going through a MS C Full Rate Production Decision Review (FRPDR) for each Block. LCM is an ACAT IAM program. LCM has passed MS A. The tentative date are for LCM MS B is during the 1st quarter FY07 and MS C during the 4th quarter FY08, with fielding to begin in the 1st quarter FY09 with continued block upgrades thereafter. FOC is validated when all Marine Corps ground components are using capabilities provided by GCSS-MC LCM to include formal schools, and selected Marine Reserve Components and the following systems are no longer used operationally: SASSY, ATLASS II+, ATLASS I, MIMMS, and PC MIMMS.</p> <p>Transportation Systems Portfolio: Develop, refine, field, maintain and sustain of two Joint deployment programs—Integrated Computerized Deployment System (ICODES) and Aircraft Air Load Planning System (AALPS); Three Joint Sustainment programs - Cargo Movement Operations System (CMOS), Automated Manifest System - Tactical (AMS-TAC), and Global Air Transportation and Execution System (GATES); and One Bridging Technology Program Warehouse - To - War Fighter (W2W). Support software maintenance and sustainment of our existing legacy systems—MAGTF Deployment Support System II (MDSS II). Prepare applications and programs for GCSS-MC Integration.</p> <p>Joint Forces Requirement Generation II (JFRG II): JFRG II develops requirements provided by all services as it becomes necessary. Software is tested for functionality with service users then passed on to DISA for security & interoperability testing and release as a GCCS mission application. This is conducted based on a 6-month release schedule of GCCS, with a 6-month lead time for each JFRG II version release.</p> <p>Public Key Infrastructure (PKI): Is a DoD ACAT IAM Program. At the service level, the USMC PKI program has been run as an Advanced Acquisition Plan (AAP). Based on an ASD ADM, DoD PKI development will be conducted through a series of block upgrades. Transition to this approach commences in FY6 with the initiation of Increment 1. This increment will contain two enhancement categories: functional enhancements, changes that result I increased capability or functionality for the PKI and assurance enhancements, changes that result in increased levels of security and assurance and that affects the mitigation of identified risks with PKI. There are 13 functional and five (5) assurance enhancements. Additionally, PKI functionally will be expanded to the SIPERNet.</p>		

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 Systems Dev	0206313M Marine Corps Communications Systems	C2510 MAGTF CSSE & SE
<p>(U) E. MAJOR PERFORMERS:</p> <p>MCHS: FY06 - SPAWAR, Charleston, SC Environmental testing of servers and workstations Jan 06 FY07 - SPAWAR, Charleston, SC Environmental testing of servers and workstations Jan 07 FY08 - SPAWAR, Charleston, SC Environmental testing of servers and workstations Jan 08 FY09 - SPAWAR, Charleston, SC Environmental testing of servers and workstations Jan 09</p> <p>GCSS: FY06 - Oracle, Reston, VA - Software, Training and Consulting; Northrop Grumman, Stafford, Va - Consulting and Engineering Support; SI Jan 06 Marine Corps Operational Testing & Evaluation Activity (MCOTEA) - Testing & Evaluation - Feb/Mar 06 FY07 - Oracle, Reston, VA - Software, Training and Consulting; Northrop Grumman, Stafford, Va - Consulting and Engineering Support; SI Oct 06 Marine Corps Operational Testing & Evaluation Activity (MCOTEA) - Testing & Evaluation - Jan 07 FY08 - Oracle, Reston, VA - Software, Training and Consulting; Northrop Grumman, Stafford, Va - Consulting and Engineering Support; SI Oct 07; Marine Corps Operational Testing & Evaluation Activity (MCOTEA) - Testing & Evaluation - Oct 07 FY09 - Oracle, Reston, VA - Software, Training and Consulting; Northrop Grumman, Stafford, Va - Consulting and Engineering Support; SI Oct 08; Marine Corps Operational Testing & Evaluation Activity (MCOTEA) - Testing & Evaluation - Oct 08</p> <p>Transportation Systems Portfolio: FY06 - SAVI Technology, Global Services Corp, (MDSS II/ICODES), Army (AALPS), SDDC (ICODES), ANTEON (AMS-TAC and CMOS) Dec 05 FY07 - SAVI Technology, Global Services Corp, (MDSS II/ICODES), Army (AALPS), SDDC (ICODES), ANTEON (AMS-TAC and CMOS) Dec 06 FY08 - SAVI Technology, Global Services Corp, (MDSS II/ICODES), Army (AALPS), SDDC (ICODES), ANTEON (AMS-TAC and CMOS) Dec 07 FY09 - SAVI Technology, Global Services Corp, (MDSS II/ICODES), Army (AALPS), SDDC (ICODES), ANTEON (AMS-TAC and CMOS) Dec 08</p> <p>Joint Forces Requirement Generation II (JFRG II) : FY06 CSC/BBN Tech (Software Developers) May 06 FY07 TBD (Software Developers) Oct 06 FY08 TBD (Software Developers) Oct 07 FY09 TBD (Software Developers) Oct 08</p> <p>Public Key Infrastructure (PKI): FY08 - DoD PKI PMO, Joint Interoperability Test Command, Common Criteria Test Laboratories, Independent contractor test & development laboratories Oct 07 FY09 - DoD PKI PMO, Joint Interoperability Test Command, Common Criteria Test Laboratories, Independent contractor test & development laboratories Oct 08</p> <p>Automated Information Technology (AIT): FY07 - Contracting information will be determined at a later date FY08 - Contracting information will be determined at a later date FY09 - Contracting information will be determined at a later date</p>		

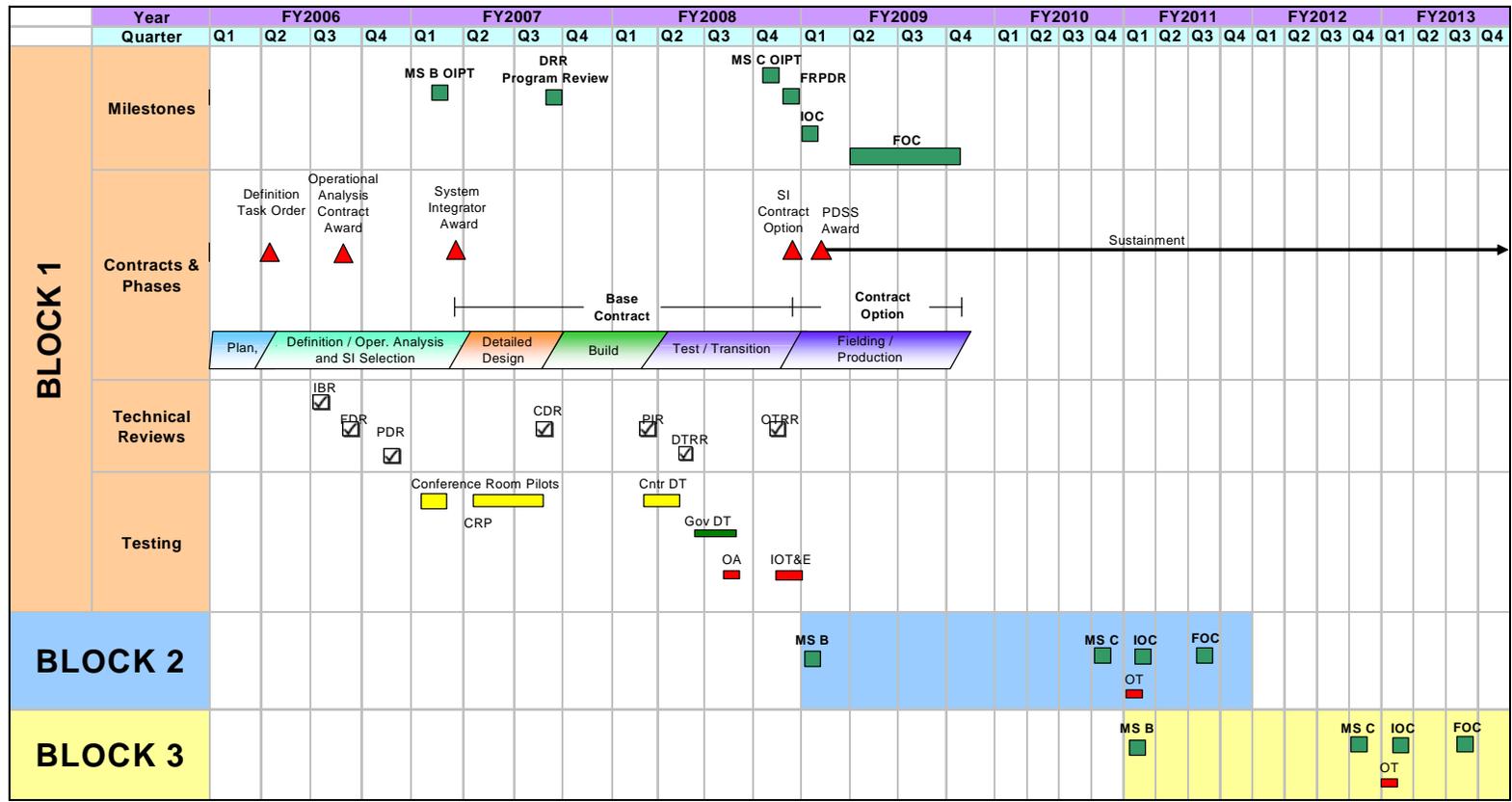
Exhibit R-3 Cost Analysis								DATE: February 2007						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communications Systems					C2510 MAGTF CSSE SE						
Cost Categories	Contract Method & Type	Performing 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 Compl	Total Cost	Target Value of Contract
Transportation System Portfolio	C/FFP	MCSC, Quantico, VA	0.516	0.199	12/05	0.340	12/06	0.138	12/07	0.149	12/08	Cont	Cont	
GCSS Logistics Chain Man	FFP/C	MCSC, Quantico, VA	18.593	6.004	06/06	24.243	12/06	17.475	11/07	23.693	11/08	Cont	Cont	
GCSS Log C2 Systems	C/FFP	EDO Corp	2.062	2.004	10/05									4.066
JFRG II	RCP	MCSC, Quantico, VA	0.000	1.443	10/05	1.527	10/06	1.629	06/08	0.500	10/08	Cont	Cont	
PKI	FFP	MCSC, Quantico, VA	0.000					2.159	TBD	1.873	TBD	Cont	Cont	
Subtotal Product Dev			21.171	9.650		26.110		21.401		26.215				
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
GCSS Logistics Chain Man	TBD	Various	0.000			4.200	10/06	5.028	10/07	6.347	10/08	Cont	Cont	
AIT	TBD	TBD	0.000			0.250	01/07	0.101	01/08	0.101	01/09	Cont	Cont	
Subtotal Support			0.000	0.000		4.450		5.129		6.448				
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
MCHS	WR	SPAWAR, Charleston SC	2.981	1.238	01/06	1.467	01/07	1.502	01/08	1.537	01/09	Cont	Cont	
Transportation System Portfolio	MIPR	SDDC	0.300	0.205	12/05			0.138	12/07	0.150	12/08	Cont	Cont	
Transportation System Portfolio	MIPR	ARMY	0.200	0.150	12/05			0.138	12/07	0.150	12/08	Cont	Cont	
Transportation System Portfolio	RCP	ANTEON	0.131	0.140	12/05	0.148	12/06	0.138	12/07	0.151	12/08	Cont	Cont	
GCSS Logistics Chain Man	WR	MCOTEA, Quantico,VA	4.200	2.181	02/06	1.228	01/07	6.701	10/07	1.476	10/08	Cont	Cont	
GCSS Log C2 Systems	WR	MCOTEA, Quantico,VA	0.433	1.003	03/06									1.436
JFRG II	RCP	MCSC, Quantico, VA								1.214	01/09	Cont	Cont	
Subtotal T&E			8.245	4.917		2.843		8.617		4.678		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
GCSS Logistics Chain Man	C/FFP	Northrop, Stafford VA	1.400	1.000	01/06	1.775	10/06	1.500	10/07	1.500	10/08	Cont	Cont	
GCSS Log C2 Systems	C/FFP	Northrop, Stafford VA	0.144	0.334	01/06									0.478
Subtotal Management			1.544	1.334		1.775		1.500		1.500		Cont	Cont	
Remarks:														
Total Cost				15.901		35.178		36.647		38.841		Cont	Cont	

UNCLASSIFIED

DATE: **February 2007**

Exhibit R-4-4a Project Schedule/Detail

APPROPRIATION/BUDGET ACTIVITY: **RDT&E, N/BA-7 OPERATIONAL SYS DEV** PROGRAM ELEMENT: **0206313M Marine Corps Communications Systems** PROJECT NUMBER AND NAME: **C2510 GCSS-MC Modernization**



<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>FY 2012</u>	<u>FY 2013</u>	<u>To Compl</u>	<u>Total Program</u>
<u>(APPN, BLI #, NOMEN)</u>										
(U) RDT&E,N	13.194	31.446	30.704	33.016	22.022	21.958	25.908	9.145	Cont	Cont
(U) PMC BLI 461700 COMBAT SPT SYS: GCSS	13.969	0.000	0.000	3.310	3.212	9.403	10.536	7.302	Cont	Cont

UNCLASSIFIED

DATE: **February 2007**

Exhibit R-4-4a Project Schedule/Detail

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communications Systems	C2510 GCSS-MC Modernization

GCSS-MC Logistics Chain Management (LCM)	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
LCM Block 1 Milestone B	1st Qtr						
LCM Block 1 Milestone C		4th Qtr					
LCM Block 1 IOT&E		4th Qtr					
LCM Block 1 IOC			1st Qtr				
LCM Block 1 FOC			2Q - 4Q				
LCM Block 2 Milestone B			1st Qtr				
LCM Block 2 Milestone C				4th Qtr			
LCM Block 2 OT					1st Qtr		
LCM Block 2 IOC					1st Qtr		
LCM Block 2 FOC					3rd Qtr		
LCM Block 3 Milestone B					1st Qtr		
LCM Block 3 Milestone C						4th Qtr	
LCM Block 3 OT							1st Qtr
LCM Block 3 IOC							1st Qtr
LCM Block 3 FOC							3rd Qtr

UNCLASSIFIED

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			0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS				
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost			25.354	55.527	112.005	92.552	59.214	64.080	43.747	45.009
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
<p>The Aviation Radar (AN/TPS-59(V)3) is a national asset. It is the only fielded ground-based sensor which can detect and track long range Air Breathing Targets (ABT) within 300 nautical miles, as well as Tactical Ballistic Missiles (TBM) at ranges of 400 nautical miles for 360 degrees and up to one million feet in elevation. Highly Expeditionary Long Range Air Surveillance Radar (HELRASR) is the modernization initiative to replace the AN-TPS 59 Radar.</p> <p>Ground Weapons Locating Radar (GWLR): The GWLR is an up-grade to the current AN/TPQ-46A radar. The system will acquire threat indirect fire weapons including mortars, artillery, rocket and missile systems at greater ranges than the current radar. The principle function of the system will be to detect, track, classify and accurately determine the origin of enemy weapon platforms and forward the location data to the counterfire element. The upgrades will focus on achievement of greater detection ranges as well as increased communication, security, and system availability.</p> <p>The Multi-Role Radar System (MRRS) is also known programmatically as Ground/Air Task Oriented Radar (G/ATOR). G/ATOR is a single material solution to fill the MRRS's and Ground Weapons Locating Radar's (GWLR) A160 requirements. It is an Evolutionary Acquisition/Incremental Development Program designed to reduce the Total Ownership Costs associated with the MRRS and GWLR systems. Increment I will fill the MRRS's Short Range Air Defense (SHORAD) mission and medium range Air Surveillance mission. Increment II will fill the GWLR's Counter Fire/Counter Battery missions. Increment III will develop tactical enhancements to Increment I's design. Lastly, Increment IV will fill the Air Traffic Control mission. Programmatically, MRRS and GWLR will merge into a single requirement (G/ATOR) as the requirement documents transition from the Op Requirement Document (ORD) format to the Capability Development Document (CDD) format.</p> <p>The Short/Medium Range Air Defense Radar AN/TPS-63B is a two-dimensional, medium-range, medium altitude, transportable radar system which is doctrinally employed as a tactical gap-filler or as an early warning system for early deployment into the operational area. It has a 360-degree air surveillance capability at a range of 160 miles and complements the co-employed AN/TPS-59(V)3 three-dimensional, long-range, air surveillance radar system. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system performance with the specific purpose of meeting increased fleet operational requirements. AN/TPS-63 modifications and system improvements will be researched and analyzed to determine which complement existing components to preclude an expensive USMC investment in solid-state radar technology.</p> <p>TPS-59 HELRASR Ballistic Missile Defense FY06 Supplemental Title IV - The Aviation Radar (AN/TPS-59(V)3) is a national asset. It is the only fielded ground-based sensor which can detect and track long range Air Breathing Targets (ABT) within 300 nautical miles, as well as Tactical Ballistic Missiles (TBM) at ranges of 400 nautical miles for 360 degrees and up to one million feet in elevation. Supplemental funding will be used to develop an Engineering Change Proposal to incorporate National Systems Cueing to improve TBM detection capability.</p>										
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:										
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost			1.476	7.832	4.463	4.419				
RDT&E Articles Qty										
AN/TPS-59 (Sustainment): Develop Engineering Change Proposals for software improvements and Diminishing Manufacturing Sources issues.										
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost			0.750	0.750	0.750	0.750				
RDT&E Articles Qty										
AN/TPS-59 (Sustainment): Contractor service support.										

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems		C3099 RADAR SYSTEMS	
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	4.503	0.000	0.000	0.000
RDT&E Articles Qty				
AN/TPS-59 HELRASR SUP BALLISTIC: Develop Engineering, Technical Development.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.100	0.200	0.000	0.000
RDT&E Articles Qty				
HELRASR (Modernization): Perform Risk Mitigation analysis.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.300	0.000	0.000
RDT&E Articles Qty				
HELRASR (Modernization): Develop Life Cycle Cost Estimate, System Test Plan..				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.100	0.500	0.000	0.000
RDT&E Articles Qty				
HELRASR (Modernization): Acquisition Support.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	2.524	0.000	0.000
RDT&E Articles Qty				
HELRASR (Modernization): System development and demonstration for Risk Mitigation.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.494	0.774	0.000	0.000
RDT&E Articles Qty				
GWLR: Radar Processor Redesign.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.293	1.207	0.000	0.000
RDT&E Articles Qty				
GWLR: AN/TPQ-46A Recap/Upgrade.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.099	0.050	0.050	0.050
RDT&E Articles Qty				
GWLR: Program office management/travel.				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.389	0.000	0.000	0.000
RDT&E Articles Qty				
GWLR: Contractor Technical, Programmatic, Engineering and Logistics Support				

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C3099 RADAR SYSTEMS		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.808	0.763
RDT&E Articles Qty				
GWLR: Software/Hardware ECP's				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.944	0.990
RDT&E Articles Qty				
GWLR: System Diminishing Manufacturing Sources (DMS)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	8.288	33.025	96.687	65.425
RDT&E Articles Qty				
G/ATOR: Contractor Technical, Development Engineering/EDM				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.00	12.000
RDT&E Articles Qty				
G/ATOR: Test and Evaluation				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.625	0.625	0.625	0.675
RDT&E Articles Qty				
G/ATOR: In-house Program Management (Govt Salaries)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.150	0.150	0.200	0.225
RDT&E Articles Qty				
G/ATOR: Program Office Management & Travel Costs				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.925	0.930	0.600	0.600
RDT&E Articles Qty				
G/ATOR: Gov't Tech Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.600	0.225	0.225	0.000
RDT&E Articles Qty				
G/ATOR: Government Furnished Equipment (GFE)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	5.250	6.181	6.400	6.400
RDT&E Articles Qty				
G/ATOR: Engineering, Management, & Logistics Support				

UNCLASSIFIED

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	0206313M Marine Corps Communication Systems	C3099 RADAR SYSTEMS		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.034	0.134	0.133	0.135
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Program Management Support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.120	0.120	0.120
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Engineering and technical support				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.078	0.000	0.000	0.000
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Feasibility study for Power Distribution				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.200	0.000	0.000	0.000
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Feasibility study for the Frequency Generator				
(U) Total \$ (C3099 Radar Systems)	25.354	55.527	112.005	92.552
(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:	29.818	55.746	56.418	169.604
(U) Adjustments from the President's Budget:				
(U) Congressional Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	-3.802		54.864	-77.717
(U) SBIR/STTR Transfer	-0.689			
(U) Minor Affordability Adjustment	0.027	-0.219	0.723	0.665
(U) Minor Affordability Adjustment				
(U) FY 2008 President's Budget:	25.354	55.527	112.005	92.552
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

UNCLASSIFIED

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 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C3099 RADAR SYSTEMS
--	---	---

(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 Comp</u>	<u>Total Cost</u>
(U) PMC, BLI#465000, AN/TPS-59 Sustainment	20.716	4.576	6.302	6.505	6.935	7.362	2.909	2.990	Cont	Cont
(U) PMC, BLI#465000, Grnd Weapons Locating Radar	5.308	9.720	9.308	2.149	2.566	2.868	2.163	2.160	Cont	Cont
(U) PMC, BLI#465000, Short/Medium Range Radar	0.490	0.436	0.451	0.456	0.410	0.342	0.702	0.561	Cont	Cont
(U) PMC, BLI#465000, Title IX Radar Set, Firefinder	18.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.000
(U) PMC, BLI#465000, Title IX Short/Medium range Radar	0.000	3.893	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.893
(U) PMC, BLI#465000, Title IX AN/TPS-59 Mods	0.000	17.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Cont
(U) PMC, BLI#465000, Grnd/Air Task Oriented Radar	0.000	0.000	0.000	17.125	105.179	114.440	127.711	130.977	Cont	Cont

(U) Related RDT&E:

(U) PE 0206313M (Marine Corps Communication Systems) PROJECT C9639A PROJECT C9860A

(U) D. ACQUISITION STRATEGY:

(U) Highly Expeditionary Long Range Air Surveillance Radar (HELRSR): The program office started R&D efforts, to include risk mitigation, contract support and document preparation, that will support development of a 3-D Expeditionary Long Range Radar (3DELRR) capability. The risk mitigation efforts will be applied to the AN/TPS-59 to close the capability gap between the AN/TPS-59 and the 3DELRR requirement.

(U) AN/TPS-59 Radar Sustainment: The Program Office intends to address Diminishing Manufacturing Sources (DMS) issues by continuing with the Post Production Support Program (PPSP) and they will also continue R&D efforts that will modernize the radar with advanced technology and performance capabilities. A Business Case Analysis (BCA) was completed which incorporated two independent obsolescence/DMS studies that identified critical components which will severely impact the system performance and readiness. Based upon the BCA, the program office intends to sustain systems. The refurbishing and sustaining of systems will extend system life cycle and lower the radars' overall operating cost and maintain the supporting establishment.

(U) Ground Weapons Locating Radar (GWLR): GWLR is a sustainment and upgrade program for the current AN/TPQ-46A radar. The upgrade will be accomplished through a series of engineering change proposals (antenna transceiver group re-cap, Radar Processor re-host, and the lightweight computer unit replacement). Engineering Change Proposals (ECPs) will be conducted by the equipment Primary Inventory Control Agent (PICA) (Army PM Firefinder) with USMC participation. Joint procurement of hardware will realize economy of scale savings and ensure common configuration. Army and Marine Corps Depot facilities will be utilized to perform hardware installation. Purpose of the upgrade is to enhance performance and availability.

(U) The Ground/Air Task Oriented Radar (G/ATOR), formerly known as Multi-Role Radar System MRRS, is an Evolutionary Acquisition / Incremental Development Program. G/ATOR is comprised of four Increments which will fill the MRRS and GWLR requirements. Four legacy systems (TPS-63, MPQ-62, TPS-73/79 and TPQ-46A) will be replaced by a single material design that offers an opportunity to reduce development cost and combine training & logistics assets. MRRS Authorized Acquisition Objective (AAO) is 41 systems replacing the TPS-63, MPQ-62 and TPS-73/79 systems as well as additional systems in support of the SHORAD mission (CLAWS weapon cue); GWLR's AAO is 22 systems, a one for one replacement of the TPQ-46A. The Increment System Development & Demonstration (SDD) phases are staggered to allow for technology insertion due to obsolescence and technology growth issues. Early Increment I builds will be back fitted to current then year technology as required. As they become available, Increment III Tactical Enhancements will parallel field to then year Increment I builds and back fitted to earlier builds. A single Engineering Development Model (EDM) will be developed during Increment I's SDD phase and flowed down to support later increments.

(U) SHORT/MEDIUM RANGE AIR DEFENSE RADAR: This effort requires R&D funds to develop modifications to keep the Short/Medium Range Air Defense Radar System's electronics and hardware viable and safe, providing sustainment for the fielded system. Efforts are underway to award a sole source Engineering Services and procurement contract with the AN/TPS-63's Original Equipment Manufacturer, Northrop Grumman. The main focus of the contract will be the development and procurement of replacement sub-assemblies currently identified as containing obsolete components, as well as those assemblies experiencing reliability, maintainability and safety related issues.

(U) E. MAJOR PERFORMERS:

(U) Lockheed Martin Corp, Syracuse, NY. Contract awarded in 2005 for AN/TPS-59 to develop ECPs for software improvements and DMS issues. FY05, FY06, FY07 and FY08 project contract with LMC in Jan of each year to develop ECPs for software improvements.

(U) Sensis Corp was awarded the contract in 2006 to support risk mitigation efforts for the 3DELRR requirement (AN/TPS-59 system development risk mitigation).

(u) Lockheed Martin Corp, Syracuse, NY, Sensis Corp and Anteon Corp. are G/ATOR prime contractors

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			0206313M Marine Corps Communication Systems					C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
AN/TPS-59 Sustainment	C/CPFF	Lockheed, Syracuse NY	9.071	1.476	01/06	7.832	01/07	4.463	01/08	4.419	01/09	Cont	Cont	
AN/TPS-59 HELRASR	C/CPFF	Lockheed, Syracuse NY	0.000	4.503	06/06		NA	0.000	NA	0.000	NA		2.820	
AN/TPS-59 HELRASR	C/CPFF	FT MONMOUTH NJ	0.000	0.100	06/06	0.000	NA	0.000	NA	0.000	NA		0.150	
SHORT/MEDIUM RANGE	RCP	Northrop Grumman	1.084	0.278	07/06	0.000	N/A	0.000	N/A	0.000	N/A	Cont	Cont	
G/ATOR	CPIF	Contractor TBD	13.388	8.288	08/06	33.025	10/06	96.687	11/07	65.425	11/08	Cont	Cont	
G/ATOR (GFE)	MIPR	FT MONMOUTH NJ	0.000	0.800	04/06	0.200	N/A	0.200	11/07	0.000	N/A	Cont	Cont	
Subtotal Product Dev			23.543	15.445		41.057		101.350		69.844		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
GWLR	WR	NSWC, Dahlgren, VA	1.878	1.787	11/05	0.305	11/06	0.614	11/07	0.640	11/08	Cont	Cont	
GWLR	MIPR	US Army CECOM	0.912	0.000	N/A	0.774	11/06	0.400	11/07	0.350	11/08	Cont	Cont	
GWLR	WR	MCLB Barstow	0.298	0.000	N/A	0.902	11/06	0.330	11/07	0.350	11/08	Cont	Cont	
GWLR	WR	NSCW, Crane, IN	0.215	0.350	11/05	0.000	N/A	0.408	11/07	0.413	11/08	Cont	Cont	
HELTRASR (Modernization)	WR	MCSC, Quantico, VA	0.000	0.000	N/A	0.200	03/06	0.000	N/A	0.000	N/A	0.000		
SHORT/MEDIUM RANGE	WR	NSWC, Crane, IN	0.289	0.000	N/A	0.120	01/07	0.120	01/08	0.120	01/09	Cont	Cont	
G/ATOR (PBL)	C/FFP	EG&G Tech, Dumfries, VA	0.400	0.200	01/06	0.900	10/06	0.900	11/07	0.900	11/08	Cont	Cont	
G/ATOR (RADAR ENGINEER)	WR	NRL, Washington, DC	0.424	0.200	12/05	0.200	10/06	0.200	11/07	0.200	11/08	Cont	Cont	
G/ATOR	MIPR	MITRE, Boston, MA	0.350	0.350	01/06	0.350	11/06	0.350	11/07	0.350	11/08	Cont	Cont	
G/ATOR (RADAR ENGINEER)	WR	NAVAIR-John Lee	0.105	0.200	01/06	0.200	10/06	0.200	11/07	0.200	11/08	Cont	Cont	
G/ATOR	RCP	MCR Federal, MCSC	0.007	0.200	12/05	0.100	10/06	0.000	11/07	0.000	11/08	Cont	Cont	
G/ATOR	WR	NSWC-CRANE	0.520	0.200	01/06	0.200	10/06	0.200	11/07	0.200	11/08	Cont	Cont	
G/ATOR	C/FFP	TBD (Models & Sym)	3.550	0.000	N/A	0.480	10/06	0.450	11/07	0.475	11/08	Cont	Cont	
G/ATOR	C/FFP	TBD (RFP DEV)	4.006	0.000	N/A	0.200	10/06	0.200	11/07	0.200	11/08	Cont	Cont	
Subtotal Support			12.954	3.487		4.931		4.372		4.398		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
G/ATOR	MIPR	MCOTEA, Quantico, VA	0.000	0.325	01/06	0.000	01/07	0.000		12.000		Cont	Cont	
Subtotal T&E			0.000	0.325		0.000		0.000		12.000		Cont	Cont	
Remarks:														

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			0206313M Marine Corps Communication Systems					C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
AN/TPS-59 Sustainment	C/CPFF	Anteon, Stafford, VA	3.941	0.750	01/06	0.750	10/06	0.750	01/08	0.750	01/09	Cont	Cont	
HELRSR (Modernization)	C/CPFF	Anteon, Stafford, VA	0.000	0.00	N/A	0.500	10/06	0.000	N/A	0.000	N/A			
HELRSR (Modernization)	WR	MCSC, Quantico, VA	2.095	0.100	09/06	2.824	10/06	0.000	N/A	0.000	N/A	Cont	Cont	
SHORT/MEDIUM RANGE	C/CPFF	Anteon, Stafford, VA	0.202	0.000	N/A	0.110	10/06	0.107	10/07	0.112	10/08	Cont	Cont	
SHORT/MEDIUM RANGE	WR	MCSC, Quantico, VA	0.030	0.034	12/05	0.024	12/06	0.026	12/07	0.023	12/08	Cont	Cont	
GWLR	WR	MCSC, Quantico, VA	0.186	0.138	10/05	0.050	10/06	0.050	10/07	0.050	10/08	Cont	Cont	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 OPERATIONAL SYS DEV			0206313M Marine Corps Communication Systems					C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	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
G/ATOR	RCP	Anteon, Stafford, VA	3.848	4.000	10/05	3.981	10/06	4.200	10/07	4.200	10/08	Cont	Cont	
G/ATOR (CAPDEV)	RCP	MCCDC, Quantico, VA	0.130	0.200	02/06	0.200	10/06	0.000	N/A	0.000	N/A	Cont	Cont	
G/ATOR (SALARIES)	MIPR	MCSC, Quantico, VA	0.220	0.525	01/06	0.650	01/07	0.650	10/07	0.650	10/08	Cont	Cont	
G/ATOR (TAD)	RCP	MCSC, Quantico, VA	0.141	0.150	10/05	0.150	10/06	0.200	10/07	0.225	10/08	Cont	Cont	
G/ATOR	C/CPFF	TBD (Risk Management)	0.000	0.200	03/06	0.300	10/06	0.300	10/07	0.300	10/08	Cont	Cont	
Subtotal Management			10.793	6.097		9.539		6.283		6.310		Cont	Cont	
Remarks:														
Total Cost			47.290	25.354		55.527		112.005		92.552			Cont	Cont

UNCLASSIFIED

Exhibit R-4-4a Project Schedule/Detail

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

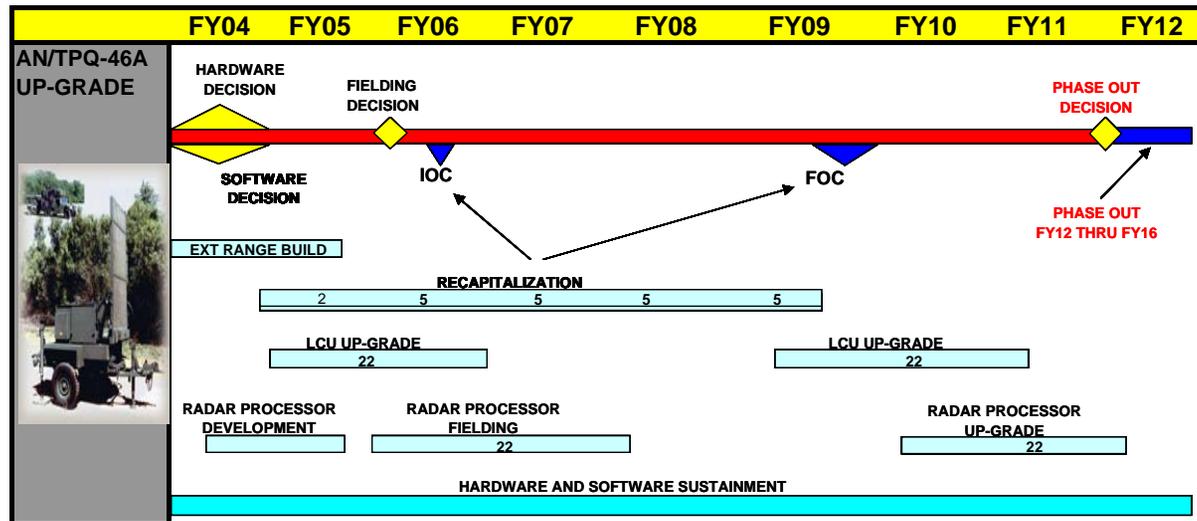
PROJECT NUMBER AND NAME

RDT&E, N /BA-7 OPERATIONAL SYS DEV

0206313M Marine Corps Communication Systems

C3099 RADAR SYSTEMS

GROUND WEAPONS LOCATING RADAR SCHEDULE PROFILE



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, C3099, GWLR	2.275	2.031	1.802	1.803	1.847	1.890	0.551	0.609	Cont	Cont
(U) PMC, BLI#465000, GWLR	5.308	9.720	9.308	2.149	2.566	2.868	2.163	2.160	Cont	Cont
(U) PMC, BLI#465000,FIRE FINDER	18.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.000

UNCLASSIFIED

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

0206313M Marine Corps Communication Systems

C3099 RADAR SYSTEMS

GWLR SCHEDULE DETAIL	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Extended Range Software Build		2nd Q-----4th Q							
Re-Cap			3rd Q-----3rd Q						
LCU Replacement			3rd Q-----3rd Q				2nd Q-----2nd Q		
MILTOPE 750M Refresh							1st Q		
Radar Processor ECP		2nd Q-----1st Q							
Radar Processor Refresh							2nd Q		
Software PDSS			4th Q-----						
IOC Upgrade ECPs				3rd Q					
FOC Upgrade ECPs							3rd Q		

UNCLASSIFIED

Exhibit R-4-4a Project Schedule/Detail

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

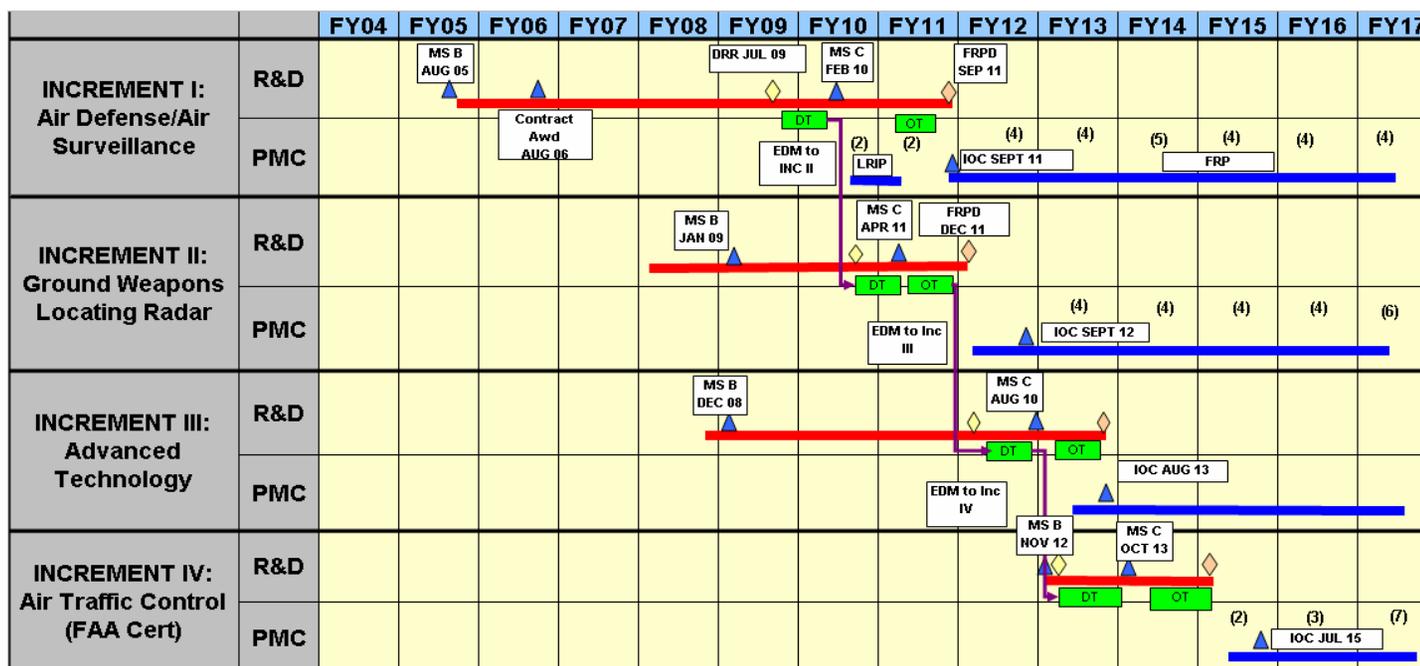
PROJECT NUMBER AND NAME

RDT&E, N /BA-7 OPERATIONAL SYS DEV

0206313M Marine Corps Communication Systems

C3099 RADAR SYSTEMS

G/ATOR Overall Program Schedule



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N, C3099, G/ATOR
 (U) PMC, BLI#465000, G/ATOR

	<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, C3099, G/ATOR	15.838	41.136	104.737	85.325	51.571	59.669	40.621	41.753	Cont	Cont
(U) PMC, BLI#465000, G/ATOR	0.000	0.000	0.000	17.125	105.179	114.440	127.711	130.977	Cont	Cont

UNCLASSIFIED

Exhibit R-4-4a Project Schedule/Detail							DATE:	
APPROPRIATION/BUDGET ACTIVITY							February 2007	
PROGRAM ELEMENT			PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 OPERATIONAL SYS DEV			0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS		
G/ATOR SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Increment I								
Concept & Technology Developmental Phase	-----3rd Q							
Selection Process	3rd Q-----3rd Q							
Milestone B	4th Q							
System Development and Demonstration Phase	4th Q-----2nd Q							
System Integration (EDM)	2nd Q-----2nd Q							
System Demonstration (DT)	3rd Q----2nd Q							
Long Lead Items (EDM, LRIP & Production)	2nd Q-----Cont							
Milestone C	2nd Q							
Production Phase	2nd Q -----Cont							
LRIP	2nd Q-----2nd Q							
IOT&E	2nd--3rd Q							
IOC	4th Q							
Program Support	1st Q-----Cont							
Increment II								
Concept & Technology Developmental Phase	1st Q-----1st Q							
Milestone B	2nd Q							
System Development and Demonstration Phase	1st Q-----2nd Q							
System Demonstration (DT)	3rd Q-2nd Q							
Long Lead Items	4th Q							
Milestone C	4th Q							
Increment III								
Concept & Technology Developmental Phase	1st Q-----1st Q							
Milestone B	1st Q							
System Development and Demonstration Phase	1st Q-----4th Q FY12							
System Demonstration (DT)	3rd Q FY12							
Milestone C	4th Q FY12							
Production Phase	4th Q FY12							
IOT&E	1-2ndQFY13							

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	C9999 CONGRESSIONAL ADDS							
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication								
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		19.510	16.189	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>MetaData C9276 - Metadata technology incorporates the first data language. It serves as the “brain” and is the enabling component of the Metadata products.. The technology array solves the above-identified problems by commonly defining and modeling data meanings, functions, and relations; creating an intelligent database with pre-loaded data conditions and automatically merging new real-time data; enabling all data structures to be stored using a finite set of data relations; preparing data for a variety of mission specific tool sets; delivering a database that can search itself; enabling users to access data in a common way; and providing A single database design for all applications.</p> <p>Improved Ground Based Transportable Radar C9639(IGBTR) – Expeditionary radars will require a smaller antenna than the current AN/TPS-59. Radar antenna size is dependent on the power level of the transmitters used. Funding will support a risk mitigation effort to develop high power transmitter/receiver assemblies.</p> <p>Global Command and Control System is USMC Battlefield Fusion C9640 - is the dynamic effort to combine and coordinate the effects of all Electronic Warfare (EW) assets, present and future, that reside in any given area of operation. Ideas to facilitate this include the creation of a combined EW trainer and the use of common software/hardware solutions/applications for EW systems coordination. The results of this endeavor will better use and economy of legacy and new and emerging EW platforms. The effort will be used by Communication Emitters Sensing Attacking System (CESAS) operators to continuously calculate electromagnetic wave emission and propagation, antenna beam shape, scan patterns, and emitter audio. It will provide necessary training in the Techniques, Tactics, and Procedures required to attack, in a realistic training environment, targets of interest.</p> <p>Ground//AirTask Oriented Radar G/ATOR C9860 - Ground/Air Task Oriented Radar (G/ATOR) –The G/ATOR program will develop an procure 41 air component radar systems and 22 ground component radar systems. The radar system is a 3-Dimensional, HMMWV-mounted short to medium range radar designed to detect targets such as cruise missiles, Air Breathing Targets, rockets, mortars and artillery. It is an all-in-one rapidly deployed system that replaces four existing systems with better performance, Combat Identification, reduced logistical footprint, increased mobility and reduces O&M costs through commonality of maintenance concepts and parts. The system will provide supplemental 3-Dimensional radar coverage for those areas out of view of the fielded AN/TPS-59(V)3 Radar system due to terrain masking. The supplemental funding will allow the Marine Corps to begin the development of an additional Engineering Development Model to help mitigate technical risk for Increment II.</p> <p>Marine Corps Composite Tracking Network Engineering Development (CTN) – The MC Composite Tracking Network Eng/Dev Systems funds are required to provide non-personal technical services. The services consist of design engineering, systems integration, program management, logistics, test management, test support, and technical documentation to develop and demonstrate equipment to physically remote a phased array antenna from its associated terminal (radio).</p> <p>Simulation Center Infrastructure Program is MC DCGS & Net Centric Center 9862N - DCGS-Distributed Common Ground/Surface System – Marine Corps (DCGS), formerly known as Distributed Common Ground/Surface-Integration (DCGS-1), is a collection of Service Systems that will contribute to joint and combined war fighter needs for Intelligence, Surveillances and Reconnaissance (ISR) support, with the global Information Grid (GIG) providing unconstrained communications circa 2010 to support the Department of Defense (DOD), ISR Enterprise end-state. The DCGS Integrated Backbone (DIB) is the architecture that will tie the Service DCGS systems together into one Family of Systems (FOS). The DIB will provide the tools, standards, architecture, and documentation for the DCGS community to achieve Multi-Intelligence (Multi-INT) (e.g. Imagery Intelligence (IMINT), Signal Intelligence (SIGINT), Measurement/Measuring and Signature Intelligence (MASINT), Counterintelligence/Human Intelligence (CI/HUMINT)), network centric environment with the interoperability to afford individual nodes’ access to the information needed to execute their respective missions.</p>									

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				
RDT&E, N/BA-7 Operational Sys Dev	0206313M Marine Corps Communication	C9999 CONGRESSIONAL ADDS			
<p>Training System Modification is Radio Battalion Information Operators Training C9863N - will consist of technical training and support of Marine Air Ground Task Force (MAGTF) information operations cells through specialized classroom instruction, practical application, testing and evaluation of Electronic Warfare units supporting them.</p> <p>Recon, Target & Surveillance Veh RST-V C2273 - 9864N - The RST-V is a 4x4 hybrid electric drive vehicle with reconnaissance, surveillance, targeting and C3I (command, control, communications and intelligence) capability coupled with integrated stealth and survivability features. The communications systems include an ITT SINCGARS ASIIP VHF transponder and satellite communications.</p> <p>Basic Remote Access Terminal is Remote Tactical Collection & Transmission Sys C9865N - The intent is to procure the Swedish system as a gap filler bandwidth provider to the Radio Battalions (RADBNs). Evaluation of the system will be conducted as a Field User Evaluation (FUE). The SWEDISH family of systems comprise a complete suite of Very Small Aperture Terminals (VSAT) systems and subcomponents that will be used to provide secure, high bandwidth to the Radio Battalions. The initial intent is to provide a 'hub and spoke' delivery concept that will be comprised of a 2.5m system at the Battalion Headquarters and numerous Fly Away, (1.5m system), and Vehicle Based, (.9m system) systems for use during Marine Expeditionary Units (MEU) and Operation Iraqi Freedom (OIF) deployments.</p> <p>Battlefield Management System (BMS)/Advanced Situational Awareness System (AS2) C9A87 - This add supports the Battlefield Management System (BMS)/Advanced Situational Awareness System (AS2)</p> <p>Foliage Penetrating Synthetic Aperture Radar C9A88 - This add will support the development of the Foliage Penetrating Synthetic Aperture Radar</p> <p>Improved Marine Communications C9A89 - This add will support the development of Improved Marine Communications</p> <p>Trident - Soldier Training C9A90 - This add provides funding for Trident - Soldier Training</p> <p>Wireless Tactical Remote Video/Sensor Surveillance System C9A91 - Funding for Development of Wireless Tactical Remote Video/Sensor Surveillance System</p>					
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.438	0.000	0.000	0.000
RDT&E Articles Qty					
MetaData C9276 - Research and development of a multi-phase effort in support of MetaData.					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		3.031	0.000	0.000	0.000
RDT&E Articles Qty					
IGBTR: Develop, Build and Test transmit/receiver line replaceable units					
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.225	0.000	0.000	0.000
RDT&E Articles Qty					
IGBTR: Engineering and technical support for transmit/receive line replaceable uni					

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication	C9999 CONGRESSIONAL ADDS			
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.438	1.345	0.000	0.000
RDT&E Articles Qty					
USMC Battlefield Fusion - C9640 Development and Integration of Electronic Warfare Scenario Simulator (EWSS).					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.348	2.740	0.000	0.000
RDT&E Articles Qty					
Ground/AirTask Oriented Radar G/ATOR C9860: Analytical, Acquisition, Sdmin Sup for Increment II					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.376	0.000	0.000	0.000
RDT&E Articles Qty					
Ground/AirTask Oriented Radar G/ATOR C9860: Logistics and Program Support for Increment II					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.120	0.000	0.000	0.000
RDT&E Articles Qty					
Composite Tracking Network C9861: Administrative Support on contract					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.250	0.000	0.000	0.000
RDT&E Articles Qty					
Composite Tracking Network C9861: Program Management Support					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.120	0.000	0.000	0.000
RDT&E Articles Qty					
Composite Tracking Network C9861: Salary for Intergovernmental Personnel Act					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.062	2.192	0.000	0.000
RDT&E Articles Qty					
Composite Tracking Network C9861: Develop and demonstrate equip to physically remote a phased array antenna from its associated terminal (radio)					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.930	0.000	0.000	0.000
RDT&E Articles Qty					
Radio BN Info OPS training C9863 - Development of tactics, techniques, and procedures for Radio Bn Operators training.					

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	C9999 CONGRESSIONAL ADDS			
RDT&E, N/BA-7 Operational Sys Dev	0206313M Marine Corps Communication				
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.832	0.000	0.000	0.000
RDT&E Articles Qty					
Tac Veh Recon Surveillance Target Acq Capability (RSTV) C9864 - Maturation for RSTV Phase I					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.183	0.000	0.000	0.000
RDT&E Articles Qty					
Tac Veh Recon Surveillance Target Acq Capability (RSTV) C9864 - Contract support for RSTV					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.749	0.000	0.000	0.000
RDT&E Articles Qty					
Tac Veh Recon Surveillance Target Acq Capability (RSTV) C9864 - RSTV Technology Transfer to on board Vehicle Power					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.980	0.000	0.000	0.000
RDT&E Articles Qty					
Tac Veh Recon Surveillance Target Acq Capability (RSTV) C9864 - RSTV C2 On the Move Integration					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.800	0.000	0.000	0.000
RDT&E Articles Qty					
Tac Veh Recon Surveillance Target Acq Capability (RSTV) C9864 - RSTV Platform Demonstration					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.628	2.391	0.000	0.000
RDT&E Articles Qty					
Remote Tactical Collection and Transmission System C9865- Field User Evaluation of prototypes.					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	3.238	0.000	0.000
RDT&E Articles Qty					
Battlefield Management System (BMS)/Advanced Situational Awareness System (AS2) C9A87 - This add supports the Battlefield Management System (BMS)/Advanced Situational Awareness System (AS2)					

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	C9999 CONGRESSIONAL ADDS			
RDT&E, N/BA-7 Operational Sys Dev	0206313M Marine Corps Communication				
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.996	0.000	0.000
RDT&E Articles Qty					
Foliage Penetrating Synthetic Aperture Radar C9A88 - This add will support the development of the Foliage Penetrating Synthetic Aperture Radar					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	1.295	0.000	0.000
RDT&E Articles Qty					
Improved Marine Communications C9A89 - This add will support the development of Improved Marine Communications					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.996	0.000	0.000
RDT&E Articles Qty					
Trident - Soldier Training C9A90 - This add provides funding for Trident - Soldier Training					
COST (\$ in Millions)		FY2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.996	0.000	0.000
RDT&E Articles Qty					
Wireless Tactical Remote Video/Sensor Surveillance System C9A91 - Funding for Development of Wireless Tactical Remote Video/Sensor Surveillance System					
(U) Total \$		19.510	16.189	0.000	0.000
(U) PROJECT CHANGE SUMMARY:					
		FY 2006	FY 2007	FY 2008	FY 2009
(U) FY 2007 President's Budget		21.300	0.000	0.000	0.000
(U) Congressional Reductions		-0.203			
(U) Congressional Rescissions					
(U) Congressional Increases			16.250		
(U) Reprogrammings					
(U) Reprogramming for Execution		-1.000			
(U) SBIR/STTR Transfer		-0.501			
(U) Minor Affordability Adjustment		-0.086	-0.061		
(U) FY 2008 President's Budget:		19.510	16.189	0.000	0.000
CHANGE SUMMARY EXPLANATION:					
Congressional Add FY06 9862N for \$1.0M is being executed by ONR					
(U) Funding: See above.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					