

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA-7 Operational Sys Dev
PROGRAM ELEMENT (PE) NAME AND NO.
0206313M Marine Corps Communications Systems

COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	277.553	260.719	273.696	189.912	209.027	169.657	150.707
C2270 Expeditionary Indirect General Support Weapon Systems	39.972	31.870	55.232	30.320	31.959	35.966	34.859
C2272 Intelligence C2 Systems	43.171	13.942	17.760	26.013	26.309	22.968	24.625
C2273 Air Operations C2 Systems	62.719	39.366	46.671	24.682	11.481	8.476	6.439
C2274 Command & Control Wargare Systems	3.827	9.254	8.933	8.930	9.725	10.426	10.930
C2275 Joint Tactical Radio Systems	11.937	6.649	11.906	6.930	5.827	4.385	4.474
C2276 Communications Switching and Control Systems	4.248	3.977	2.592	0.811	0.826	0.326	0.335
C2277 System Engineering & Integration	8.899	6.660	7.027	7.197	7.409	8.852	9.097
C2278 Air Defense Weapons Systems	5.567	1.213	4.617	3.967	3.723	3.823	3.910
* C2315 Training Devices/Simulators	0.000						
C2510 MAGTF CSSE & SE	35.230	34.927	15.233	11.891	27.078	35.693	21.684
C3099 Radar Systems	46.201	102.428	103.725	69.171	84.690	38.742	34.354
C9999 Congressional Adds	15.782	10.433	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles							

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 parts of a triad of capabilities which permits command and control systems to be transformed into a complete operating system. The third element of the triad is command and control organization and is not covered in this program element. USMC command and control is divided into seven functional areas and one supporting functional area as follows: intelligence C2, fire support C2, air operations C2, radio systems C2, combat service support C2, warfare C2, radar systems C2, and C2 support (information processing and communications).

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 establishment. Subprojects which support the commander's decision processes have been collected into the Command Post Systems project since these systems must work in close cooperation to ensure effective C2 of Marine Air Ground Task Forces.

1. Received \$41.54M in FY07 GWOT.
2. Received \$0 in FY08 from the 2008 Consolidated Appropriation.
3. FY08 funding totals do not include \$80.542M previously requested for current FY08 GWOT requirements.

Note:

* Funds for Project C2315 were realigned to PE 0206623M in FY07.

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0206313M Marine Corps Communications Systems

B. PROGRAM CHANGE SUMMARY

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) FY 2008 President's Budget:	233.708	280.140	248.687
(U) Adjustments from the President's Budget:			
(U) Congressional Program Reductions		-25.000	
(U) Congressional Undistributed Rescissions/Reductions		-1.838	
(U) Congressional Rescissions			
(U) Congressional Increases (incl. FY07 Supplemental)	41.540	10.500	
(U) FY09 Program Review			24.630
(U) Reprogrammings	7.156		
(U) SBIR/STTR Transfer	-4.851	-3.083	
(U) Minor Affordability Adjustment	0.000		0.379
(U) FY 2009 President's Budget:	277.553	260.719	273.696

CHANGE SUMMARY EXPLANATION:

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

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008			
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 Exp Indirect Fire Gen Supt Wpn Sys			
COST (\$ in Millions)		Prior Years	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost		53.989	39.972	31.870	55.232	30.320	31.959	35.966	34.859
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
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.									
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 Backup Computer System (BUCS), and the Battery Mobile Tactical Shelter (MTS).									
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									
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.									
Tactical Command Operations (TCO) will provide systems to the command post which support Maneuver C2. Maneuver C2 is the executive layer of A11 decision support that pulls and fuses information from other functional areas.									
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 Milestone C for TLDHS Block II was June 2005 and Fielding and Full rate Production Decisions were Oct 2006.									

EXHIBIT R-2a, RDT&E Project Justification

DATE: February 2008

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 Exp Indirect Fire Gen Supt Wpn Sys
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Marine Air Ground Task Force (MAGTF) Command and Control (C2) Systems. The Marine Requirements Oversight Council (MROC) has endorsed and authorized Marine Air Ground Task Force Command and Control (MAGTF C2) as the command and control strategy for the Marine Corps. As such, it is the equivalent of the other Services strategies (LandWarNet, C2 Constellation and ForceNet). The MAGTF C2 will take place within the ForceNet construct. Therefore, MAGTF C2 is a strategy and a process for addressing command and control concerns across the DOTMLPF specturm. From a systems perspective, MAGTF C2 the strategy and process will be realized through a system of systems architecture. This system of systems architecture is comprised of five "pillars": MAGTF C2 Systems and Applications, Marine Corps Enterprise IT Systems, Network Services, Bandwith Systems Operational and Bandwidth Systems Tactical. The MAGTF C2 strategy realized within this architecture acknowledges that command and control requires an infrastructure (radios, servers, switches, routers and to some extent IT Services) upon which to execute (commanders receive situational information and disseminate/transfer guidance and orders).

The infrasturcture required to execute command and control is embodied within the Network Services and Bandwith Systems "pillars". MAGTF C2 Systems and Applications integrates and implements common, open architecture software between developing systems (Command Aviation Command and Control Systems (CAC2S)) and fielded systems (Joint Tactical COP (Commom Operations Picture) Workstation/Command and Control Personal Computer (C2PC) in order to provide increased Situational Awareness (SA), Blue Force Tracking (BFT), and improved COP/Common Tactical Picture (CTP) for the commander and disseminate/transmit his/her guidance and direction. In accordance with a system of systems approach, beginning in FY08 JTCW sustainment and product improvement will occur within the MAGTF C2 Systems and Applications line.

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.

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.

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).

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) with Windows Command and Control CE (C2CE) software. The Dismounte 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 commander 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.

Blue Force Tracker (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, intransit 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.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	1.574	1.203	1.513
RDT&E Articles Qty			
TLDHS: Test Development and integration support			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.230	0.086	0.300
RDT&E Articles Qty			
AFATDS: Development of BackUp Computer System (BUCS) & Software (SW)			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.084	0.000	0.175
RDT&E Articles Qty			
AFATDS: SPAWAR Test and Intergration			

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RDT&E, N/BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2270 Exp Indirect Fire Gen Supt Wpn Sys		
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.377	0.400	0.320
RDT&E Articles Qty				
AFATDS: Program Management, engineering support and hardware development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.116	0.122	0.135
RDT&E Articles Qty				
AFATDS: MCTSSA tested new Software (SW) and Federation of Systems (FEDOS)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.933	0.530	1.251
RDT&E Articles Qty				
AFATDS: Development of improved interoperability with USMC and Joint Systems. Enhancement to EMT and C2PC interface.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.084	0.375	1.522
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.518	1.715
RDT&E Articles Qty				
AFATDS: Net Centric Migration				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		12.340	0.000	0.000
RDT&E Articles Qty				
C2PC: Software Development Build Test Open Architecture and Service oriented Architecture C2/SA Applications.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.309
RDT&E Articles Qty				
C2PC: Program Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		13.300	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 capabi				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.401	0.000	0.000
RDT&E Articles Qty				
C2PC: Engineering Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.961	0.000	0.000
RDT&E Articles Qty				
C2PC: Program Management Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.462	0.000	0.000
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).				

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RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2270 Exp Indirect Fire Gen Supt Wpn Sys		
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	6.746	6.800
RDT&E Articles Qty reprogrammed				
MAGTF C2: Coordinate, integrate and implement a common, open architecture software baseline.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	4.669	5.878
RDT&E Articles Qty				
MAGTF C2: Engineering Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	1.800	1.800
RDT&E Articles Qty				
MAGTF C2: Program Management Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	2.490	1.765
RDT&E Articles Qty				
MAGTF C2: Conduct C2PC Code Quality Analysis.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	10.978	26.245
RDT&E Articles Qty				
MAGTF C2: NMCI Certification Cost				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.414	0.293
RDT&E Articles Qty				
MAGTF C2: Software Development				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
MAGTF C2 Integration, IV&V, Logistics				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.350	0.568
RDT&E Articles Qty				
MAGTF C2 ECP and trouble desk support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.177	0.000	0.000
RDT&E Articles Qty				
DACT: DACT Technical Support Plan.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
DACT: Mount Development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
DACT: Protocol Implementation.				

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COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.020	0.191	0.195	
RDT&E Articles Qty					
BFSA: Test support					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.196	0.195	0.125	
RDT&E Articles Qty					
BFSA: Increased Capabilities.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		1.122	0.043	2.955	
RDT&E Articles Qty		30	30	30	
BFSA: Mount Development.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.598	0.000	0.075	
RDT&E Articles Qty					
BFSA: Software Integration.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.355	0.070	0.250	
RDT&E Articles Qty					
BFSA: Training Development.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.079	0.153	0.135	
RDT&E Articles Qty					
TCO: Program management and engineering support.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.130	0.100	0.223	
RDT&E Articles Qty					
TCO: System testing and integration to develop additional functional capabilities.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.218	0.251	0.450	
RDT&E Articles Qty					
TCO: Integrate software changes into new system and perform testing.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.215	0.186	0.235	
RDT&E Articles Qty					
TCO: Testing and validations of advanced concepts and technologies.					
(U) Total \$		39.972	31.870	55.232	

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(U) PROJECT CHANGE SUMMARY:	FY 2007	FY 2008	FY 2009
(U) FY 2008 President's Budget:	15.030	36.144	37.653
(U) Adjustments from the President's Budget:			
(U) Congressional Program Reductions		-3.845	
(U) Congressional Rescissions			
(U) Congressional Undistributed Rescissions/Reductions		0.205	
(U) Congressional Increases (incl. FY 2007 Supp)	21.44		
(U) PR09 Program Review			17.369
(U) Reprogrammings	3.817		
(U) SBIR/STTR Transfer	-0.315	-0.224	
(U) Minor Affordability Adjustments			0.210
(U) FY 2009 President's Budget:	39.972	32.280	55.232
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 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	30.085	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30.085
PMC BLI 463100 AFATDS	9.876	6.520	0.862	3.418	3.482	3.549	3.631	Cont	Cont
PMC BLI 463100 BFSA	29.341	13.684	8.456	6.789	4.809	15.557	20.743	Cont	Cont
PMC BLI 463100 GCCS	10.514	4.785	4.686	4.909	5.033	2.038	2.291	Cont	Cont
PMC BLI 463100 TCO	0.372	1.340	0.220	0.220	0.230	0.237	0.243	Cont	Cont
PMC BLI 463100 TLDHS	15.017	3.328	1.042	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.

(U) D. ACQUISITION STRATEGY:

(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. Software must maintain compatibility with 5 POR and 7 Operational Flight Programs (OFP).

(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.

(U) MSBL/C2PC: Funds applied to 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 NGMS, Aquia, 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. (JTCW) Additional funds applied to refactoring and rearchitesting the JTCW client and gateway.

(U) TCO: Contracting is done with various vendors for software test and integration, COTS evaluation and documentation. The PMO conducts quarterly performance reviews.

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C2270 Exp Indirect Fire Gen Supt Wpn Sys

(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.

(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 (HMMVV, AAV, LAV, and Tanks). AAO 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.

(U) E. MAJOR PERFORMERS:

TARGET LOCATION DESIGNATION AND HAND-OFF SYSTEM (TLDHS)

FY07 Stauder Technologies St Louis MI T&E

FY08 Stauder Technologies St Louis MI T&E

FY09 Stauder Technologies St Louis MI T&E

ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEMS (AFATDS)

FY07 RAYTHEON, Fort Wayne IN. Develop and test software. Oct 07
MCOTEA, Quantico, va. Test software. Award Dec 07.
MCTSSA, Software Testing, Award Oct 07.

FY08 RAYTHEON, Fort Wayne IN. Develop and test software. Oct 08
MCOTEA, Quantico, va. Test software. Award Dec 08
MCTSSA, Software Testing, Award Oct 08.

FY09 RAYTHEON, Fort Wayne IN. Develop and test software. Oct 09
MCOTEA, Quantico, va. 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 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) - FY07-13:

NSWC SPAWAR, Charleston, SC, Integration and Program Support

Ocean Systems Engineering Corporation (OSEC), Calsbad, CA, Training Development

L-3 Com/Titan, Stafford, VA Program Support

DATE: **February 2008**

Exhibit R-3 Cost Analysis				APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT	PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Systems Development				0206313M Marine Corps Communications Systems										C2270 Exp Indirect Fire Gen Supt Wpn Sys					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	6.917	1.224	10/06	1.053	10/07	1.363	10/08	Cont	Cont								
AFATDS	WR	SPAWAR, Charleston, SC	0.484	0.390	10/06	0.161	10/07	0.175	10/08	Cont	Cont								
AFATDS	WR	MCTSSA QUANTICO VA	2.088	0.116	11/06	0.122	11/07	0.135	11/08	Cont	Cont								
AFATDS	MPR	CECOM FT MONMOUTH	4.817	4.875	03/07	1.435	03/08	4.714	03/09	Cont	Cont								
AFATDS	RCP	CEOSS CTQ MCSC	0.660	0.377	01/07	0.400	01/08	0.410	01/09	Cont	Cont								
AFATDS	RCP	KCI, Stafford VA	0.046								0.046								
AFATDS	Repro	MCSC, QUANTICO, VA	0.040								0.040								
AFATDS	MP	PMI&E FT. MONMOUTH	1.435								1.435								
MAGTF SOFTWARE BASELINE	RCP	NGMS, San Diego	8.749								0.000								
MAGTF SOFTWARE BASELINE	WR/RCP	SPAWAR Charleston	3.007								8.749								
MAGTF SOFTWARE BASELINE	RCP	MCSC QUANTICO VA	2.292								3.007								
C2PC	RCP	MCSC QUANTICO VA	2.420					0.309			2.601								
C2PC	MP	SPAWAR	0.230	13.315	10/06						15.735								
C2PC	RCP	NGMS, SAN DIEGO	0.000	13.478	10/06						13.708								
MAGTF C2	RCP	NGMS, San Diego	0.000			17.893	10/07	33.556	10/08	Cont	Cont								
MAGTF C2	WR/RCP	SPAWAR Charleston	0.000			5.500	10/07	5.500	10/08	Cont	Cont								
TCO	WR/RCP	SPAWAR, Charleston, SC	2.870	0.634	11/06	0.517	11/07	0.941	11/08	Cont	Cont								
TCO	MP	Robins AFB	0.024	0.008	11/06	0.012	11/07	0.012	11/08	Cont	Cont								
BFSA	WR/RCP	SPAWAR, Charleston, SC	0.090	1.000	01/07	0.064	01/08	1.475	10/08	Cont	Cont								
BFSA	MPR/T&M	CECOM FT MONMOUTH	0.000	0.790	12/06			1.975	12/08	Cont	Cont								
BFSA	MPR/FFP	CECOM FT MONMOUTH	0.450	0.305	01/07	0.210	12/07				0.965								
BFSA	RCP	MCOTEA	0.000			0.145	10/07	0.125	10/08										
DACT	RCP	MCSC, QUANTICO, VA	1.721								1.721								
DACT	WR	MCTTSA, CAMP PEND	0.363	0.177	10/06						0.540								
DACT	RCP	MCSC, QUANTICO, VA	0.052								0.052								
DACT	MPR	DISA	0.050								0.050								
DACT	MPR	CECOM	0.252								0.252	3.379							
Subtotal Product Dev			39.057	36.689		27.512		50.690		Cont	Cont								
Remarks:																			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	0.975	0.200	12/06							1.175							
MAGTF SOFTWARE BASELINE	WR	MCTSSA	1.145								1.145								
C2PC	RCP	MCTSSA	0.012								0.012								
C2PC	RCP	DISA	1.150								1.150								
C2PC	RCP	MCOTEA FY06	0.000	0.234	01/07						0.234								
C2PC	RCP	MCTSSA	0.000	0.524	01/07						0.524								
C2PC	RCP	SPAWAR	0.000	0.234	06/07						0.234								
C2PC	RCP	NMCI CERTIFICATION	0.000	0.029	06/07						0.029								
MAGTF C2	CP	NMCI CERTIFICATION	0.000			0.554	10/07	0.432	10/08	Cont	Cont								
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			0.000	10/07	0.487	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			0.000		0.000			0.004								
Subtotal Support			3.282	1.221		2.254		2.493		Cont	Cont								
Remarks:																			

Exhibit R-3 Cost Analysis											DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Systems Development				0206313M Marine Corps Communications Systems				C2270 Exp Indirect Fire Gen Supt Wpn Sys						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	0.036										0.036	
TLDHS	WR	MCSC QUANTICO VA	0.074										0.074	
TLDHS	Repro	MCOTEA	1.035			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	0.074			0.066	12/06	0.074	12/07	0.074	12/08	Cont	Cont	
BFSA	WR	FMF, MCB Camp Pendleton/VA				0.196	11/06	0.080	01/08	0.025	01/09	Cont	Cont	
DACT		MCOTEA TESTING	0.468										0.468	
												Cont	Cont	
												Cont	Cont	
												Cont	Cont	
												Cont	Cont	
Subtotal T&E			2.660			0.412		0.304		0.249		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	8.990										8.990	
C2PC	RCP	MCSC QUANTICO CTQ	0.000			1.650	10/06						1.650	
MAGTF C2	RCP	MCSC QUANTICO CTQ	0.000					1.800	10/07	1.800	10/08	Cont	Cont	
Subtotal Management			8.990			1.650		1.800		1.800		Cont	Cont	
Remarks:														
Total Cost			53.989			39.972		31.870		55.232		Cont	Cont	

Exhibit R-4-4a Project Schedule/Detail

DATE:

February 2008

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

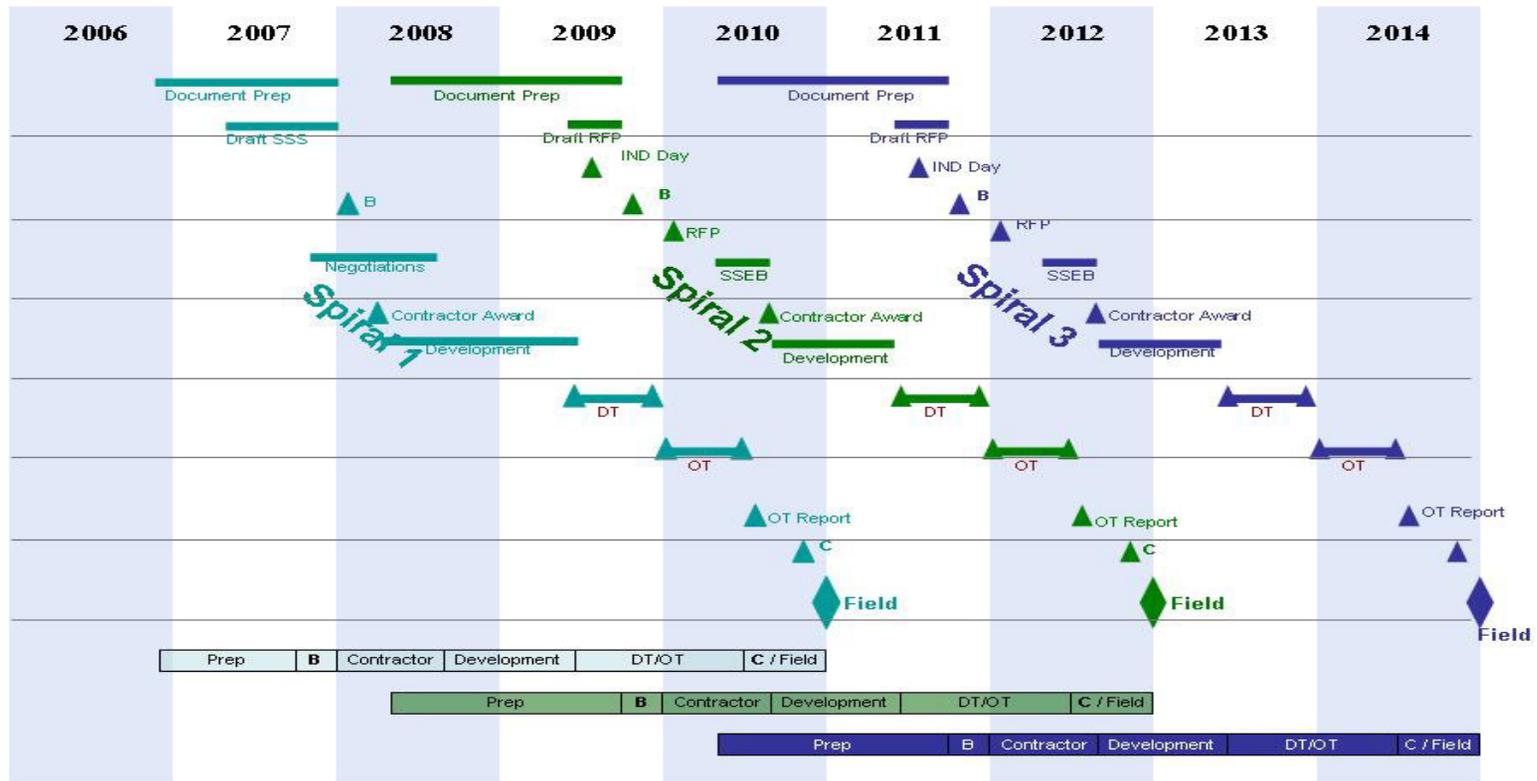
PROJECT NUMBER AND NAME

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

0206313M Marine Corps Communications Systems

C2270 Exp Indirect Fire Gen Supt Wpn Sys

MSBL/C2PC & MAGTF C2



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N C2270 C2PC
 (U) RDT&E,N C2270 MAGTF C2 Systems Applications

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Comple	otal Cost
(U) RDT&E,N C2270 C2PC	29.464	0.000	0.309	0.000	0.000	0.000	0.301	0.000	30.074
(U) RDT&E,N C2270 MAGTF C2 Systems Applications	0.000	27.447	43.349	20.588	22.773	24.922	23.244	Cont	Cont

Exhibit R-4a Project Schedule/Detail						DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 Operational Systems Development		0206313M Marine Corps Communications Systems			C2270 Exp Indirect Fire Gen Supt Wpn Sys			

MAGTF C2 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					

Exhibit R-4-4a Project Schedule/Detail

DATE:

February 2008

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

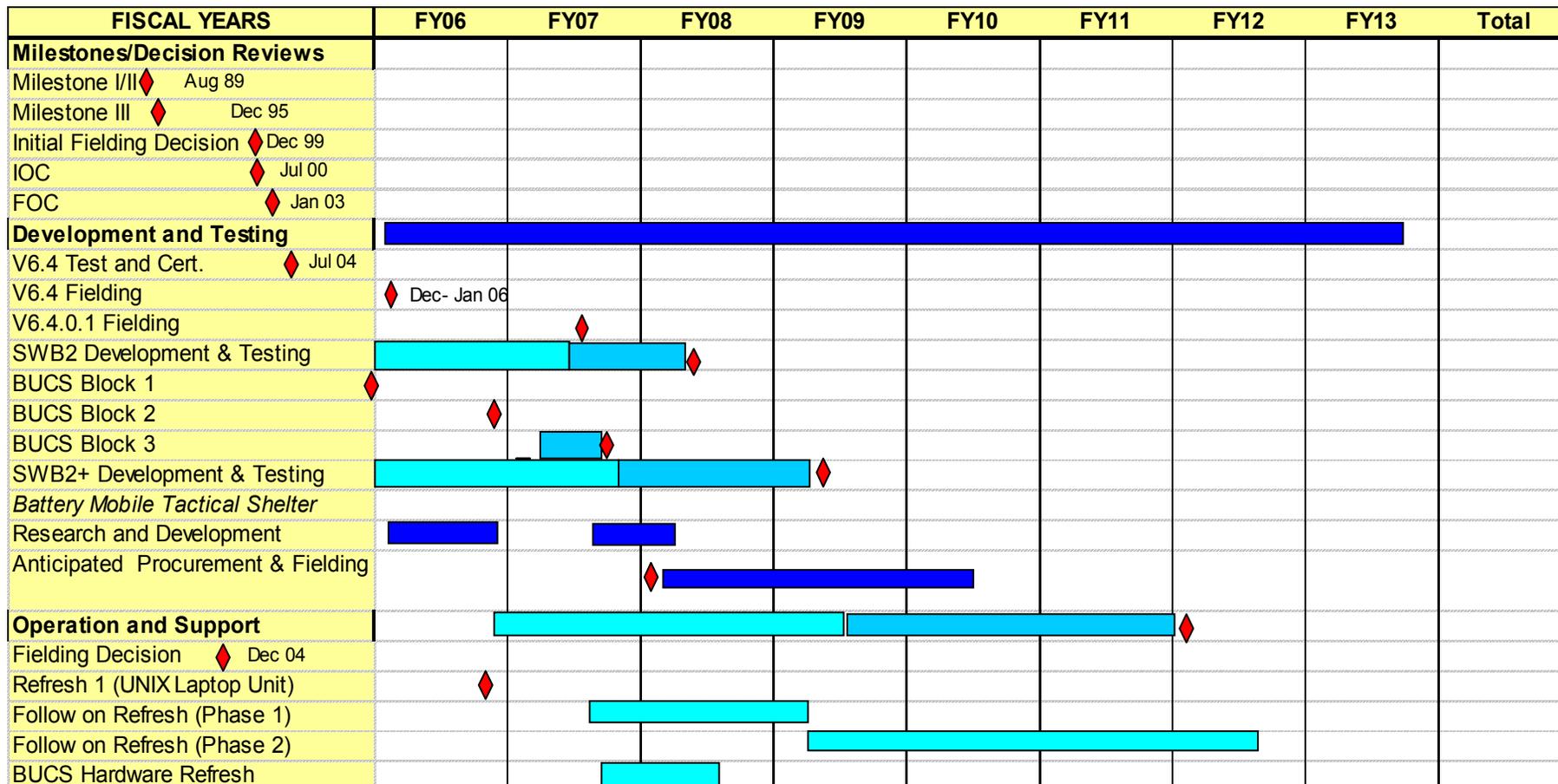
PROJECT NUMBER AND NAME

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

0206313M Marine Corps Communications Systems

C2270 Exp Indirect Fire Gen Supt Wpn Sys

ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEMS (AFATDS)



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N, C2270, AFATDS	5.824	2.192	5.508	5.271	5.818	5.939	6.072	Cont	Cont
(U) PMC BLI, 463100, AFATDS	9.876	6.520	0.862	3.418	3.482	3.549	3.631	Cont	Cont

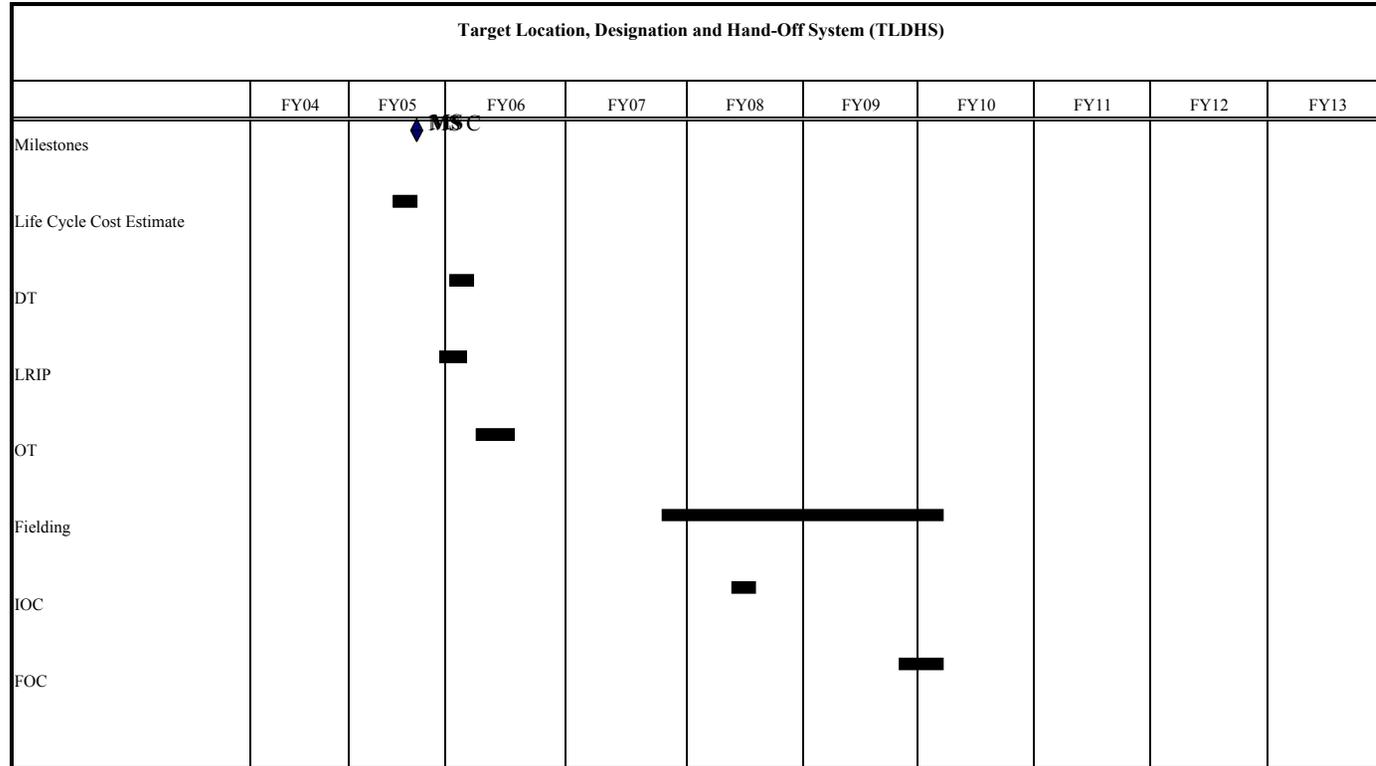
Exhibit R-4-4a Project Schedule/Detail							DATE:	
							February 2008	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2270 Exp Indirect Fire Gen Supt Wpn Sys						
ADATDS SCHEDULE DETAILS								
AFATDS DELIVERY DETAILS								
		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
EMT Software Delivery			2nd Qtr	3rd Qtr		1st Qtr		3rd Qtr
BUCS V2.0 Delivery		3rd Qtr						
BUCS follow on Software Delivery			3rd Qtr					
Shelter Fielding			3rd Qtr					

DATE: **February 2008**

Exhibit R-4-4a Project Schedule/Detail

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2270 Exp Indirect Fire Gen Supt Wpn Sys

TLDHS SCHEDULE



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N C2270 TLDHS	1.574	1.203	1.513	1.514	1.008	1.031	1.055	Cont	Cont
(U) PMC BLI 4631000 TLDHS	15.017	3.328	1.042	1.023	2.045	2.084	2.132	Cont	Cont

Exhibit R-4-4a Project Schedule/Detail	DATE: February 2008
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Systems	PROJECT NUMBER AND NAME C2270 Exp Indirect Fire Gen Supt Wpn Sys
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TLDHS SCHEDULE DETAIL	FY 2005	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								
Developmental Testing		1st Qtr							
Low Rate Initial Production	4th Qtr								
Operational Testing		2nd Qtr							
Fielding			4th Qtr			1st Qtr			
Initial Operating Capability				2nd Qtr					
Full Operational Capability					3rd Qtr				

DATE: February 2008

Exhibit R-4-4a Project Schedule/Detail

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2270 Exp Indirect Fire Gen Supt Wpn Sys

DACT SCHEDULE

	FY07	FY08	FY09	FY10	FY11	FY12	FY13
DACT Milestones/Decision Reviews							
Fielding Decision (upgraded RPDA)		◆					
Contract Awards							
D-DACT	◆	◆					
Hardware production							
D-DACT FY07 purchase	■	■					
D-DACT FY08 purchase		■	■				
Software build							
Develop and Test Cycle 1	■						
Develop and Test Cycle 2		■					
DT/OT		■					
Field and Train							
D-DACT	■	■	■	■			
Sustainment	■	■	■	■	■	■	■
BFSA Milestones/Decision Reviews							
Technical Reviews & Audits							
MRC IPR	◆						
MRC CDR/SRR	◆						
MRC Qual Testing	◆						
MRC Interoperability Testing	◆						
Contract Awards							
BFT/MRC	◆						
Production							
BFT/MRC		■	■				
Field/Install and Train							
BFT/MRC			■	■			
BFT/MRC P3I							
JCR and Type 1 Transceiver							
DT (PM FBCB2)		■					
OT (ATEC/MCOTEA)			■				
Procure Transceiver				■	■		
Field JCR software and Transceiver				■	■	■	
Sustainment	■	■	■	■	■	■	■

Program Funding Summary (APPN, BLI #, NOMEN)	FY 2007	FY 2008	FY 2009	FY 2010	FY2011	FY 2012	FY 2013	Comp	Total Cost
(U) RDT&E,N, C2270, DACT	0.177	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont

EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2008					
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost			43.171	13.942	17.760	26.013	26.309	22.968	24.625
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.									
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.									

EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2008
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
<p>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.</p> <p>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.</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <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/SCII and Secret Collateral levels to USMC intelligence units. TROJAN SPIRIT terminals provide connectivity into Joint Worldwide Intelligence Communication System (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 research and development to meet a congressionally mandated implementation deadline.</p>		

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.035	0.037	0.039
RDT&E Articles Qty				
CIHEP: Engineering, Integration and Technical support for technical refresh and update of program hardware/software upgrades.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.091	0.066	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.440	0.000	0.434
RDT&E Articles Qty				
GCCS-13: Program Support, Integration and Software Engineering				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.972	0.000	0.612
RDT&E Articles Qty				
GCCS-13: Software Engineering Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.100	0.041	0.100
RDT&E Articles Qty				
GCCS-13: Engineering/Acq Logistics Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.070	0.000	0.080
RDT&E Articles Qty				
GCCS-13: Program Testing				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.724	0.516	0.722
RDT&E Articles Qty				
IAS MOD KIT: Software Engineering and Management Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.310	0.326	0.345
RDT&E Articles Qty				
IAS MOD KIT: Program, Logistic and Admin Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.500	0.000	0.484
RDT&E Articles Qty				
IBR: Engineering and technical service support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.500	0.000	0.000
RDT&E Articles Qty				
IBR: Research and Development of MIBS-R.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.083	0.000	0.000
RDT&E Articles Qty				
IBR: Contract and Program Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
IER: Program Management and Technical Support for the ISR Program.				

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems		
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.700	0.081	0.203
RDT&E Articles Qty				
IER: Engineering Support for delivery of new technology initiatives to the Operating Forces.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.232	0.000	0.000
RDT&E Articles Qty				
IER: System Engineering support for the ISR Testing and Training Center.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.280	0.000	0.115
RDT&E Articles Qty				
JSTARS: Engineering and technical support for development of software dissemination capability.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.104	0.054	0.000
RDT&E Articles Qty				
JSTARS: Future MTI capability into JSTARS ground elements.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.100	0.054	0.121
RDT&E Articles Qty				
JSTARS: MTIX Capability.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.100	0.000	0.000
RDT&E Articles Qty				
JSTARS: CGS/JSWS Client Development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.100	0.000	0.000
RDT&E Articles Qty				
JSTARS: IPv6 integration research.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.010	1.010	0.547
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.271	0.345	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.267	0.239	0.238
RDT&E Articles Qty				
JSIPS-TEG: Program Management and Technical support for T&E of program refresh.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.290	0.350	0.153
RDT&E Articles Qty				
JSIPS-TEG: Development and integration of video capture and exploitation capability.				

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.314	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.387	0.304	0.345
RDT&E Articles Qty				
JSIPS-TEG: Engineering/technical management and Infrastructure/Team IMINT shared costs.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.210	0.104	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.040	0.024	0.047
RDT&E Articles Qty				
MSIDS: Program Management and technical support for Technical and Evaluation of program refresh.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.505	0.827	1.232
RDT&E Articles Qty				
TCAC: Software development, integration and testing for TCAC with COE 4.X and future releases.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.350	0.215
RDT&E Articles Qty				
TCAC: Program Management Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.961	2.869	3.824
RDT&E Articles Qty				
TENCAP: Program support and management; evaluate national intelligence data systems for MAGTF applicability.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.897	0.608	0.151
RDT&E Articles Qty				
TENCAP: Technical assessments of emerging national data dissemination capabilities.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		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.				

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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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.321	0.260	0.318
RDT&E Articles Qty				
TPC: Integration of Hardware and Software of Spiral Development Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.035	0.033	0.049
RDT&E Articles Qty				
TPC: Contractor Support for Integration and Re-engineering Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.286	0.257	0.259
RDT&E Articles Qty				
TPCS-MPC: EDM Design.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.250	0.200
RDT&E Articles Qty				
TPCS-MPC: System development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.050	0.056
RDT&E Articles Qty				
TPCS-MPC: Training development and test support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.700	0.350	0.502
RDT&E Articles Qty				
TPCS-MPC: Program support and management.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.500	0.387	0.000
RDT&E Articles Qty				
TPCS-MPC: Operational Test and Evaluation (OT&E).				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.700	0.578	0.709
RDT&E Articles Qty				
TRSS-PIP: Logistic and Admin support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.060	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Management support - MCSC				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.500	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Development of P3I Sensors.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Air Certification of Advanced Air Delivered Sensor (AADS) store.				

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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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Development of SMMS II.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.000	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Development of Urban Sensor Sets				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.422	0.000	0.000
RDT&E Articles Qty				
TRSS-PIP: Support IOT&E and Increment II efforts.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.420	0.264	0.431
RDT&E Articles Qty				
TROJAN SPIRIT: Engineering and Technical Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		16.600	0.000	0.106
RDT&E Articles Qty				
ANGEL FIRE: Engineering and Technical Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
DCGS-MC - USMC DCGS Integrated Backbone (DIB).				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.361	0.800
RDT&E Articles Qty				
DCGS-MC - Research and Development and Integration efforts.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		3.930	0.988	1.583
RDT&E Articles Qty				
DCGS-MC - Engineering and Technical Services.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.997	1.932
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 \$		43.171	13.942	17.760

EXHIBIT R-2a, RDT&E Project Justification

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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
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(U) PROJECT CHANGE SUMMARY:	FY2007	FY2008	FY2009	
(U) FY 2008 President's Budget:	26.571	17.052	18.624	
(U) Adjustments from the President's Budget:				
(U) Congressional Program Reductions		-3.02		
(U) Congressional Rescissions				
(U) Congressional Increases	16.600			
(U) Reprogrammings				
(U) SBIR/STTR Transfer				
(U) Minor Affordability Adjustment		-0.090	-0.864	
(U) FY 2009 President's Budget:	43.171	13.942	17.760	
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

(U) C. OTHER PROGRAM FUNDING SUMMARY:		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
<u>Line Item No. & Name</u>										
PMC BLI 474700 Intel Support Eq	TRSS-PIP	12.254	63.087	5.042	8.727	12.943	4.258	5.993	Cont	Cont
PMC BLI 474700 Intel Support Eq	CIHEP	18.402	15.397	5.106	6.681	11.682	6.051	5.698	Cont	Cont
PMC BLI 474700 Intel Support Eq	DCGSI	0.000	0.518	0.116	6.246	0.577	0.593	0.610	Cont	Cont
PMC BLI 474700 Intel Support Eq	JSIPS - TEG	18.694	11.110	1.363	1.826	7.076	0.309	0.317	0.000	40.695
PMC BLI 474700 Intel Support Eq	TPCS	17.056	14.427	0.303	0.875	4.244	0.000	0.000	0.000	36.905
PMC BLI 474700 Intel Support Eq	MSIDS	10.917	3.226	2.251	4.350	4.386	2.132	1.903	Cont	Cont
PMC BLI 474700 Intel Support Eq	IBR	0.361	2.283	0.525	1.077	1.096	0.449	0.461	Cont	Cont
PMC BLI 474700 Intel Support Eq	TPC	21.649	13.373	3.209	1.658	9.943	4.731	6.319	0.000	60.882
PMC BLI 474700 Intel Support Eq	RREP	4.495	1.933	7.266	1.083	1.301	1.389	1.427	Cont	Cont
PMC BLI 474700 Intel Support Eq	TSCM	0.000	2.359	0.000	1.410	0.000	1.539	0.000	Cont	Cont
PMC BLI 474700 Intel Support Eq	TROJAN SPIRIT	7.085	11.640	0.560	0.109	0.114	0.116	0.120	Cont	Cont
PMC BLI 474700 Intel Support Eq	JWICS	0.703	0.540	0.828	0.638	0.620	0.896	0.921	Cont	Cont
PMC BLI 474700 Intel Support Eq	TCVS	5.600	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont
PMC BLI 465200 Mod Kits	IAS MOD Kit	0.000	6.357	0.000	0.000	0.000	0.000	0.000	Cont	Cont
PMC BLI 465200 Mod Kit	TCAC	8.080	5.599	0.000	0.000	0.000	0.000	0.000	Cont	Cont
PMC BLI 465200 Mod Kit	JSTARS	1.622	4.688	0.000	0.000	0.000	0.000	0.000	Cont	Cont
PMC BLI 465200 Mod Kit	IER	15.805	9.777	0.000	0.000	0.000	0.000	0.000	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)
 (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

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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 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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(U) ACQUISITION STRATEGY TENCAP. Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.</p> <p>(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.</p> <p>(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 unsupportable. The increment refresh approach will effectively leverage technological advances. Each increment of upgrades will refresh 1/3 of the fielded components.</p> <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>		

EXHIBIT R-2a, RDT&E Project Justification		DATE:
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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems
<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 compliance efforts.</p>		
(U) E. MAJOR PERFORMERS:		
MANPACK SIDS (MP SIDS)		
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 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)		
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)		
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.		

EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2008
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)		
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 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 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.		
JOINT SURVEILLANCE TARGET ATTACK RADAR (JSTARS)		
FY 07 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet Protocol Version 6 (IPv6) research and development.		
FY 08 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet Protocol Version 6 (IPv6) research and development NSMA, VA, Provide engineering and technical support for development of software dissemination capability.		
FY 09 SPAWAR, Charleston, S.C. Provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet Protocol Version 6 (IPv6) research and development. NSMA, VA, Provide engineering and technical support for development of software dissemination capability.		

EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY		February 2008
RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems
JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG)		
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 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,		
TACTICAL REMOTE SENSOR SYSTEM (TRSS)		
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)		
FY07 MARCORSYSCOM (MCSC), Quantico, VA. Provide program management support for tech refresh and upgrade of program hardware and software.		
FY07/FY08/FY09 NSMA, MTC, Stafford, VA - Provided for Pgm Mgmt support for tech refresh and upgrade of program hardware and software.		
FY07 ACTION SYSTEMS, Las Cruces, NM. Provide engineering, integration and technical support for tech refresh and upgrade of program hardware and software.		
TROJAN SPIRIT		
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 to include EOA, DT and OT.		
FY09 NSMA, MTC Stafford, VA - Continue to provide funds for P3I prototype, technical and Engineering support.		
DCGS-I		
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, and integration support.		

Exhibit R-3 Cost Analysis						DATE: February 2008								
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 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
TENCAP	Various	Titan	21.062			3.993	12/06	3.627	12/07	3.975	12/08	Cont	Cont	
TPCS	RCP	SPAWAR	4.494			0.799	11/06	0.257		0.259	12/08	Cont	Cont	
TPCS	WR	SPAWAR	0.000			0.500	11/06	0.250	12/07	0.200			Cont	Cont
MSIDS	RCP	NSMA (MTC)	0.543			0.250	01/07	0.128	01/08	0.263	01/09	Cont	Cont	
CIHEP	RCP	Action Systems	0.260			0.020	11/06					Cont	Cont	
CIHEP	RCP	USAIMA	0.024			0.015	04/07					Cont	Cont	
CIHEP	RCP	NGIT	0.037			0.025	01/07	0.037	01/08	0.039	01/09	Cont	Cont	
CIHEP	RCP	NSMA (MTC)	0.038			0.025	01/07	0.066	01/08	0.091	01/09	Cont	Cont	
CIHEP	RCP	MCSC	0.260			0.041	06/07					Cont	Cont	
TRSS-PIP	RCP	OSEC	1.500			1.000	01/07					0.000	2.500	
TRSS-PIP	MIPR	NAWCWD	2.740			0.000						0.000	2.740	
TRSS-PIP	RCP	NSMA (MTC)	2.162			0.700	01/07	0.578	01/08	0.709	01/09	Cont	Cont	
TRSS-PIP	RCP	MCSC	5.649			2.560	01/07					0.000	8.209	
TRSS-PIP	RCP/WR	SSCC	0.168			0.000						0.000	0.168	
JSTARS	WR/MPR	SPAWAR	0.859			0.384	12/06	0.108	12/07	0.115	12/08	Cont	Cont	
JSTARS	RCP	NSMA (MTC)	0.906			0.300	12/06		12/07	0.121	12/08	0.000	1.327	
TROJAN SPIRIT	RCP	NSMA (MTC)	0.374			0.420	12/06	0.264	12/07	0.431	12/08	Cont	Cont	
DCGSI	RCP	NSMA (MTC)	4.101			3.930	12/06	2.346	12/07	4.315	12/09	Cont	Cont	
DCGSI	MPR	USAF	0.700			0.000						Cont	Cont	
JSIPS - TEG	MPR	ASPO	4.812			1.264	02/07	1.716	02/08	0.890	02/09	Cont	Cont	
JSIPS - TEG	RCP	NSMA (MTC)	4.709			0.883	11/06	0.775	11/07	0.531	11/08	Cont	Cont	
JSIPS - TEG	MPR	SPAWAR	0.489			0.094	11/06	0.346	11/07	0.116	11/08	Cont	Cont	
JSIPS - TEG	RCP	MCSC (CEOss)	0.056			0.000		0.058	12/07	0.060	12/08	Cont	Cont	
JSIPS - TEG	RCP	MCSC	0.145			0.000		0.050	12/07	0.060	12/08	Cont	Cont	
IBR	RCP	MCSC	0			0.500	09/07					Cont	Cont	
Subtotal Product Development			56.088			17.703		10.606		12.175		Cont	Cont	
Remarks:														

Exhibit R-3 Cost Analysis				DATE: February 2008										
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 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	1.560			0.321	12/06	0.250	12/07	0.318	12/08	Cont	Cont	
TPC	RCP	NSMA (MTC)	0.039			0.035	12/06	0.043	12/07	0.049	12/08	Cont	Cont	
TPCS	RCP	NSMA (MTC)	6.229			1.687	02/07	0.350	12/07	0.502	12/08	Cont	Cont	
IAS MOD KIT	RC/WR	SPAWAR Charleston	1.513			0.623	01/07	0.406	01/08	0.602	01/09	Cont	Cont	
IAS MOD KIT	RCP	NSMA (MTC)	1.271			0.411	01/07	0.436	01/08	0.465	01/09	Cont	Cont	
GCCS I3	RCP	NSMA (MTC)	2.273			0.440	02/07	0.041	02/08	0.434	02/09	Cont	Cont	
GCCS I3	RCP	SPAWAR Charleston	1.430			0.972	12/06	0.000	12/07	0.512	12/08	Cont	Cont	
GCCS I3	WR	SPAWAR Charleston	0.110			0.100	12/06	0.000	12/07	0.200	12/08	Cont	Cont	
TCAC	RCP	NSMA (MTC)	2.203			1.130	12/06	0.827	12/07	0.829	12/08	Cont	Cont	
TCAC	RCP	MCSC	0.035			0.050	11/06	0.168	11/07	0.057	11/08	Cont	Cont	
TCAC	MPR	SPAWAR	0.000				08/07	0.000	01/08	0.386	01/09	Cont	Cont	
TPCS	MPR	MCLB	0.000			0.000		0.000		0.056	11/08	Cont	Cont	
IBR	WR	SPAWAR	0.835			0.000				0.200		Cont	Cont	
IBR	RCP	NSMA (MTC)	0.203			0.083	12/06			0.284		Cont	Cont	
IBR	RCP	MCSC	0.000				12/07	0.000		0.000		Cont	Cont	
ISR	WR	SPAWAR, Charleston	0.604			0.932	01/07	0.081	01/08	0.203	01/09	Cont	Cont	
ANGEL FIRE	RCP	VARIOUS	0.000			16.600		0.000		0.106		Cont	Cont	
JSTARS	RCP	MCSC	0.101									0.000	0.101	
Subtotal Support			18.406			23.384		2.602		5.203		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	0.035			0.025	11/06	0.025	11/07	0.025	11/08			
TCAC	MIPR	DIA	0.358			0.000		0.000		0.000				
GCCS I3	MPR	JITC	0.129			0.070	10/06	0.000	10/07	0.080	10/08	0.000	0.279	
TRSS-PIP	RCP	MCOTEA	0.000			0.422	01/07					0.000	0.422	
TPCS	MIPR	MCOTEA	0.637			0.500	02/07	0.437	02/08			Cont	Cont	
TPCS	MIPR	ABERDEEN	0.070			0.000						Cont	Cont	
TPCS	MIPR	USAOTC	0.402			0.000						Cont	Cont	
TEG	MIPR	MCOTEA	0.071			0.267	09/07	0.115	02/08	0.127	02/09	Cont	Cont	
IBR	RCP	NSWC	0.083			0.500						Cont	Cont	
Subtotal T&E			1.785			1.784		0.577		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 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	2.280				08/07	0.000		0.000				
TCAC	WR	NAWC	0.206			0.300	11/06	0.157	11/07	0.150	11/08			
Subtotal Management			2.486			0.300		0.157		0.150		Cont	Cont	
Remarks:														
Total Cost						43.171		13.942		17.760		Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail

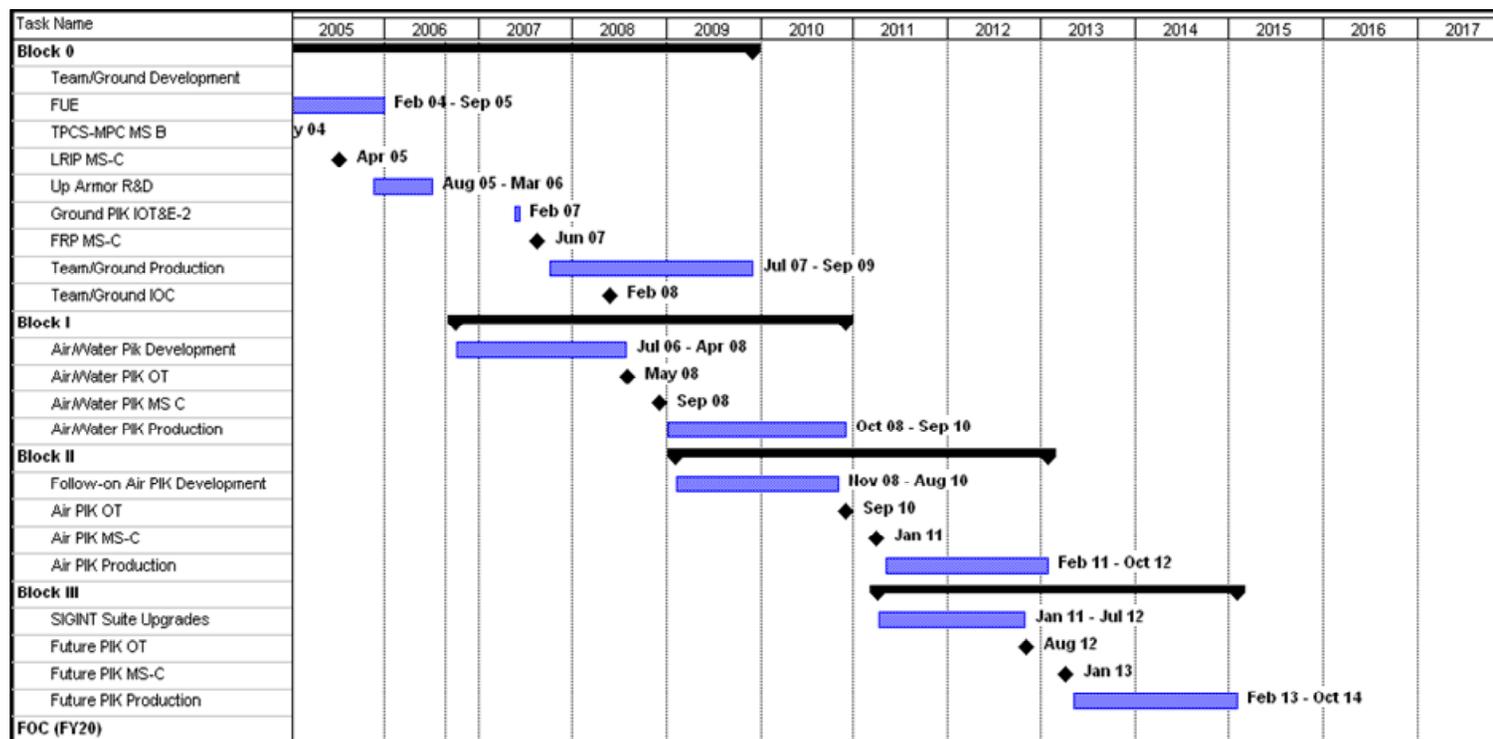
DATE: February 2008

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)

(U) RDT&E,N

(U) PMC BLI 474700 Intel Suppor TPCS

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	3.486	1.294	1.017	1.554	1.461	1.657	1.701	Cont	Cont
(U) PMC BLI 474700 Intel Suppor TPCS	17.056	14.427	0.303	0.875	4.244	0.000	0.000	0.000	36.905

Exhibit R-4/4a Schedule Profile/Detail							DATE: February 2008			
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

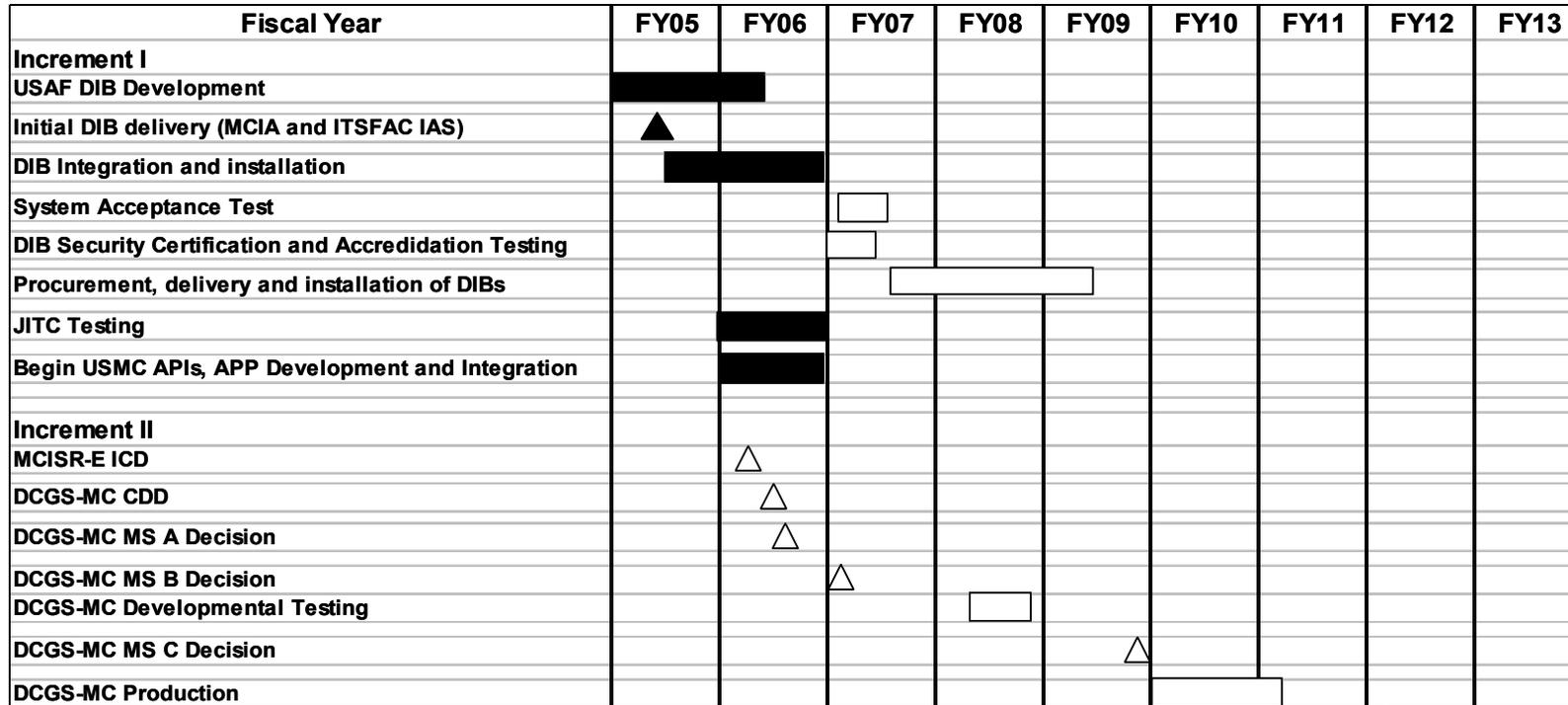
DATE: February 2008

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>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>
(APPN, BLI #, NOMEN)									
(U) RDT&E,N	3.930	2.346	4.315	4.452	4.437	3.489	3.587	Cont	Cont
(U) PMC BLI 474700 Intell Supp IDC GSI	0.000	0.518	0.116	6.246	0.577	0.593	0.610	Cont	Cont

Exhibit R-4/4a Schedule Profile/Detail

DATE: **February 2008**

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

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 2008						
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		3.827	9.254	8.933	8.930	9.725	10.426	10.930
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 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>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 2007	FY 2008	FY 2009			
Accomplishment/Effort Subtotal Cost			0.080	0.000	0.000			
RDT&E Articles Qty								
CESAS - Research and Development Directed Energy and Directional Attack Antennas.								
COST (\$ in Millions)			FY 2007	FY 2008	FY 2009			
Accomplishment/Effort Subtotal Cost			0.495	0.112	0.420			
RDT&E Articles Qty								
CESAS - Research and Development of techniques, tactics and procedures.								

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.250	0.000	0.000
RDT&E Articles Qty				
CESAS - Testing Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.196	0.000	0.000
RDT&E Articles Qty				
CESAS - Testing for CESAS and Radio Threads				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.023	0.000	0.000
RDT&E Articles Qty				
CESAS - Program Management Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.704	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.055	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 Correlati				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.254	0.000	0.000
RDT&E Articles Qty				
TERPES: Program Management Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.570	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 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.200	0.317	0.919
RDT&E Articles Qty				
RREP: Research and Development of next generation SIGINT Suite.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	1.208	1.496
RDT&E Articles Qty				
RCIED: Engineering Analysis Support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	4.414	4.000
RDT&E Articles Qty				
RCIED: Hardware and Software Development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	3.000	2.098
RDT&E Articles Qty				
RCIED: Hardware and Software Integration and testing.				
(U) Total \$		3.827	9.254	8.933
(U) PROJECT CHANGE SUMMARY:				
	FY 2007	FY 2008	FY 2009	
(U) FY 2008 President's Budget:	3.827	11.32	8.835	
(U) Adjustments from the President's Budget:				
(U) Congressional Reductions		-2.007		
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings				
(U) SBIR/STTR Transfer				
(U) Minor Affordability Adjustments		-0.059	0.098	
(U) FY 2009 President's Budget:	3.827	9.254	8.933	
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY		February 2008
RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Comm Systems	PROJECT NUMBER AND NAME C2274 Command & Control Warfare Systems
(U) C. OTHER PROGRAM FUNDING SUMMARY:		
<u>Line Item No. & Name</u>	FY 2007	FY 2008
(U) PMC BLI 465200 Modification Kits MEWSS	0.188	0.000
(U) PMC BLI 465200 Mod Kit FLAMES (CESAS)	4.379	8.457
	FY 2009	FY 2010
	0.000	0.000
	FY 2011	FY 2012
	0.000	0.000
	FY 2013	To Compl
	0.000	0.000
	Total Cost	
		12.836
(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 2008
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		
COMMUNICATION EMMITTER SENSING AND ATTACKING SYSTEM (CESAS/FLAMES)		
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)		
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)		
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 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	2.952									Cont	Cont	
TERPES	RCP	Lockheed Martin	6.352			0.763	12/06					Cont	Cont	
TERPES	MPR	NAWC, Pt. Mugu CA	5.208			0.309	10/06					Cont	Cont	
TERPES	RCP	NAWC, Pt. Mugu CA	0.676			0.000	01/07					Cont	Cont	
TERPES	RCP	NSMA (MTC)	0.893			0.489	12/06					Cont	Cont	
TERPES	RCP	NSMA (AIES)	0.463			0.200	11/06					Cont	Cont	
RREP	RCP	NSWC, Crane	0.852			0.200	01/07	0.203	01/08	0.350	01/09	Cont	Cont	
RREP	RCP	NSMA (MTC)	0.225			0.120	12/06	0.124	12/07	0.350	12/08	Cont	Cont	
RREP	MIPR	ARMY COMM ELEC	0.135			0.450	03/07	0.193	03/08	0.219	03/09	Cont	Cont	
CESAS	RCP	SPAWARSYSCEN	3.398									Cont	Cont	
CESAS	WR/MIPR	NSWC, Crane	0.802			0.250	12/06	0.000				Cont	Cont	
CESAS	RCP	MCLB	1.210			0.080	12/06	0.000				Cont	Cont	
CESAS	RCP	NAVSEA	1.500			0.495	12/06	0.112	12/07	0.420	12/08	Cont	Cont	
Subtotal Product Development						3.356		0.632		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 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	0.015			0.202						Cont	Cont	
CESAS	RCP	NSMA (MTC)	1.404			0.196	11/06					Cont	Cont	
RREP	RCP	MCSC	0.020									Cont	Cont	
RCIED	RCP	MCSC	0.000					5.622	12/07	5.496	12/08	Cont	Cont	
Subtotal Support						0.398		5.622		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 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	0.035			0.050	11/06					Cont	Cont	
TERPES	MPR	DIA	0.500									Cont	Cont	
RCIED	MPR	NSWC	0.000					3.000	12/07	2.098	12/08	Cont	Cont	
Subtotal T&E						0.050		3.000		2.098		0	0	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	0.838			0.023	12/06	0.000				Cont	Cont	
Subtotal Management						0.023		0.000				Cont	Cont	
Remarks:														
Total Cost						3.827		9.254		8.933		Cont	Cont	

Exhibit 4/4a Schedule Profile/Detail

DATE:

February 2008

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
Engineering Analysis	[Redacted]					
Software/Hardware Development	[Redacted]					
Integration & Testing	◆	◆	◆	◆	◆	◆
System Upgrade & NET	◆	◆	◆	◆	◆	◆

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E

(U) PMC BLI 652000 COUNTER RDIED & EW

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E	0.000	8.622	7.594	8.190	8.886	9.568	10.049	0.000	52.909
(U) PMC BLI 652000 COUNTER RDIED & EW	0.000	183.155	12.932	13.783	13.624	12.688	12.616	0.000	248.798

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 2008

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		

Program Funding Summary

(APPN, BLI #, NOMEN)

	<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>	0.770	0.520	0.919	0.740	0.839	0.858	0.881	Cont	Cont
<u>(U) PMC BLI 474700 Intelligence Support Equip RREP</u>	4.495	1.933	7.266	1.083	1.301	1.389	1.427	Cont	Cont

RREP UPGRADE SCHEDULE	<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>
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 2008						
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost				11.937	6.649	11.906	6.930	5.827	4.385	4.474
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
<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> <p>(U) Very Small Aperture Terminal (VSAT) - VSAT provides beyond line-of-sight (BLOS), low-cost satellite communications up to speeds of 4 Mbps full duplex. VSAT fills a void of BLOS, high bandwidth capability throughout the MAGTF. The VSATs are currently Ku-band only which requires commercial satellite connectivity. Future upgrades will utilize the military's Wideband Gapfiller Satellites to save on long term O&M costs. R&D work will need to be done to ensure that VSAT can transition from Ku to Ka-band. Additional R&D dollars will be used to further develop the current Linkway modem to provide higher capacity throughout and TRANSEC</p>										
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:										
COST (\$ in Millions)				FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				1.000	0.000	0.000				
RDT&E Articles Qty										
SHF Wideband Replacement (HC3): USMC Integration efforts.										
COST (\$ in Millions)				FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.853	1.160	2.059				
RDT&E Articles Qty										
SHF Wideband Replacement (HC3): Navy/MC Crypto Development										

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.166	0.000	0.000
RDT&E Articles Qty				
SHF Wideband Replacement (HC3): Support				
Accomplishment/Effort Subtotal Cost		0.292	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.112	0.049	0.044
RDT&E Articles Qty				
TSCT (LMST): Contract support costs.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
TSCT (LMST): DISA Certification				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.981	1.404	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.270	0.320	0.391
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.400	0.250	0.500
RDT&E Articles Qty				
CONDOR: Spiral Development Studies and Integration Development				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.925	0.650	1.300
RDT&E Articles Qty				
CONDOR: Program Support, Logistics Support & Management, Technical Engineering Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.375	0.400	1.800
RDT&E Articles Qty				
CONDOR: Common Army Marine C2 Vehicle (CAMC2V) Development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.250	0.300	0.300
RDT&E Articles Qty				
CONDOR: Technical, Engineering Support and Contract Advisory, Assistance Services (MITRE)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.400	0.249
RDT&E Articles Qty				
CONDOR: Gateway and CAMC2V OT (MCOTEA)				

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.200	0.400	0.400
RDT&E Articles Qty				
CONDOR: Gateway and CAMC2V DT/02				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.966	1.674
RDT&E Articles Qty				
CONDOR: Gateway and CAMC2V Materials				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.050	0.100	0.100
RDT&E Articles Qty				
CONDOR: Marketing				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.055	0.100	0.100
RDT&E Articles Qty				
CONDOR: Travel/TAD				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.162	0.000	0.000
RDT&E Articles Qty				
WCR: Contractor Support				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.173	0.000	0.000
RDT&E Articles Qty				
WCR: Operational Testing, MCOTEA				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.050	0.000	0.000
RDT&E Articles Qty				
WCR: MCTSSA Integration Testing				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		3.000	0.000	1.119
RDT&E Articles Qty				
VSAT: Development and integration				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.500	0.000	0.500
RDT&E Articles Qty				
VSAT: Contractor Support				
(U) Total \$		11.937	6.649	11.906

EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2008

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) PROJECT CHANGE SUMMARY:	FY2007	FY 2008	FY 2009	
(U) FY 2008 President's Budget:	14.557	10.259	10.208	
(U) Congressional Reductions		-3.515		
(U) Congressional Rescissions				
(U) Congressional Increases	3.500			
(U) Reprogrammings	-5.753		1.698	
(U) SBIR/STTR Transfer	-0.367	-0.037		
(U) Minor Affordability Adjustment	0.000	-0.058		
(U) FY 2009 President's Budget	11.937	6.649	11.906	
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 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)	23.671	4.916	1.423	1.261	1.510	1.432	1.472	Cont	Cont
(U) PMC BLI# 463300 LEGACY RADIO SYS	0.000	23.618	4.044	4.089	3.839	0.277	0.284	Cont	Cont
(U) PMC BLI# 463300 CONDOR	0.000	8.394	8.365	5.993	0.000	0.000	0.000	0.000	22.752
(U) PMC BLI# 463300 VSAT	37.000	0.000	0.000	0.000	0.000	0.000	0.000	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).

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 Sys Development	0206313M Marine Corps Communication Systems	C2275 Joint Tactical Radio Systems
<p>(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.</p> <p>(U) Very Small Aperture Terminal (VSAT) - VSAT provides beyond line-of-sight (BLOS), low-cost satellite communications up to speeds of 4 Mbps full duplex. VSAT fills a void of BLOS, high bandwidth capability throughout the MAGTF. The VSATs are currently Ku-band only which requires commercial satellite connectivity. Future upgrades will utilize the military's Wideband Gapfiller Satellites to save on long term O&M costs. R&D work will need to be done to ensure that VSAT can transition from Ku to Ka-band. Additional R&D dollars will be used to further develop the current Linkway modem to provide higher capacity throughout and TRANSEC</p>		
<p>(U) E. MAJOR PERFORMERS:</p> <p>FY07 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND INTEGRATION & UPGRADE, JAN 07.</p> <p>FY08 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND INTEGRATION & UPGRADE, JAN 08</p> <p>FY09 TSCT (LMST) HARRIS COMM SYS, Melbourne, FL KA-BAND INTEGRATION & UPGRADE JAN 09</p> <p>FY07 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Crypto Development MAR 07</p> <p>FY08 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Crypto Development MAR 08</p> <p>FY09 SHF WIDEBAND REPLACEMENT (HC3) General Dynamics C4 Systems, Inc. Needham MA, Crypto Development MAR 09</p> <p>FY07 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. FEB 07</p> <p>FY08 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. FEB 07</p> <p>FY09 LEGACY: SPAWAR, Charleston, SC, Develop and Test component upgrades for Integration. FEB 08</p> <p>FY07 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support Jan 07</p> <p>FY08 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support FEB 07</p> <p>FY09 CONDOR: SPAWAR, Charleston, SC CAMC2V Development and Support NOV 08</p> <p>FY07 WCR: Robbins AFB, Georgia, Integration Testing and Support 07</p> <p>FY07 VSAT: CECOM, Ft Momouth, New Jersey Development Sept 07</p> <p>FY09 VSAT: Cecom, Ft. Momouth, NJ Mar 09</p>		

Exhibit R-3 Cost Analysis					DATE: February 2008							
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	FY07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY09 Cost	FY09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
LMST Ka-Band Upgrade	FFP	Harris Corp, Florida	0.000	0.292	01/07	0.150	01/08	0.160	01/09	Cont	Cont	
LMST DISA Certification	MIPR	PM WIN-T, CECOM	0.451	0.000		0.000		0.000		Cont	Cont	
SHF Wideband Replacement (USMC)	MIPR	PM WIN-T, CECOM	1.491	1.000	01/07	0.000		0.000		Cont	Cont	
SHF Wideband Replacement (Navy/USMC)	MIPR	PM WIN-T, CECOM	1.432	0.853	03/07	1.160	03/08	2.059	03/09	Cont	Cont	
IISR Concept and Technical Development	WR	SPAWAR Charleston	0.325	0.000		0.000		0.000		Cont	Cont	
LCE (Networks) Development	FFP	SPAWAR Charleston	1.935	2.374	02/07	1.404	02/08	1.210	12/08	Cont	Cont	
CONDOR Integ GW ITV's	FFP	SPAWAR Charleston	0.200	0.000		0.000		0.000		0.000	0.200	
CONDOR Development	SOW	SPAWAR Charleston	3.377	2.030	01/07	2.260	02/08	4.823	11/08	Cont	Cont	
SWAN K-band upgrade	MIPR	FT Momouth	0.000	3.000	09/07			1.119	03/09	Cont	Cont	
Subtotal Product Development			9.211	9.549		4.974		9.371		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	0.050	0.050	11/06	0.100	03/08	0.100	11/08	Cont	Cont	
SHF Wideband Replacement	FFP	Titan, Stafford, VA	0.842	0.166		0.000		0.000		Cont	Cont	
LMST Contractor Support	FFP	NGIT, Stafford, VA	0.515	0.112	01/07	0.049	03/08	0.044	10/08	Cont	Cont	
LCE (Networks) Development	FFP	Titan, Stafford, VA	0.270	0.000	01/07	0.320	03/08	0.391	10/08	Cont	Cont	
WCR Program Support	FFP	NGIT, Stafford, VA	0.118	0.085	01/07	0.000				Cont	Cont	
VSAT Contract Support	FFP	MARCORSYSCOM	0.000	0.500	09/07	0.000		0.500	03/09	Cont	Cont	
Subtotal Support			1.795	0.913		0.469		1.035		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	0.200	0.000	02/07	0.400	03/08	0.200	11/08	Cont	Cont	
WCR Integrtion Testing	FFP	MCTSSA, CA/TBD	0.000	0.050	02/07	0.000				Cont	Cont	
WCR MOT&E	FFP	MCOTEA	0.000	0.250	01/07	0.000				Cont	Cont	
Subtotal T&E			0.200	0.300		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 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	0.925	1.175	01/07	0.806	03/08	1.300	11/08	Cont	Cont	
Subtotal Management			0.925	1.175		0.806		1.300		Cont	Cont	
Remarks:												
Total Cost			12.131	11.937		6.649		11.906		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 EPA Award		◆									
Terminal Deliveries/Fielding			■								
IOC			◆								
FOC					◆						
Ka-band development						■					
Integration Fielding Ka-Band Upgrades						■					
IOC						◆					
FOC								◆			

Program Funding Summary

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	0.404	0.199	0.204	0.302	0.304	0.312	0.321	Cont	Cont
(U) PMC BLI# 463300 Radio Systems (LMST)	23.671	4.916	1.423	1.261	1.510	1.432	1.472	Cont	Cont

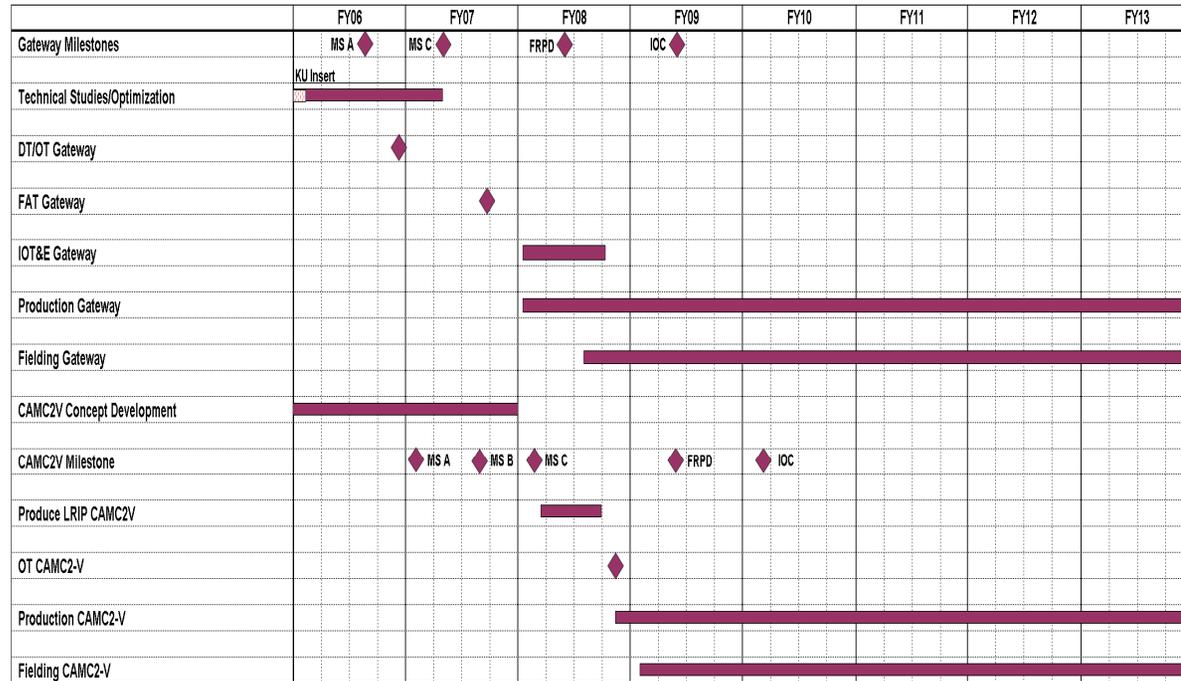
LMST SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Terminal Deliveries						
IOC (2Q03)						
FOC		2ndQtr				
Ka-band Development			1st-4th Qtr			
Ka-band Integration						
IOC			4th Qtr			
FOC					4th Qtr	

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	3.255	3.566	6.423	1.780	0.916	0.922	0.947	Cont	Cont
(U) PMC BLI# 463300 CONDOR	0.000	8.394	8.365	5.993	0.000	0.000	0.000	0.000	22.752

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)								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 2008				
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)		Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY2012	FY2013
Project Cost		81.400	62.719	39.366	46.671	24.682	11.481	8.476	6.439
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:	
APPROPRIATION/BUDGET ACTIVITY		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Systems Development		February 2008	
PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
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) - This program procures a capability for unmanned aircraft systems (UAS) to provide the company/detachment level with airborne reconnaissance to aid in detecting, identifying and engaging or avoiding enemy units. The UAS gather and transmit imagery of the tactical situation in near-real time at a range of up to ten kilometers. The Dragon Eye (DE) UAS was selected as the material solution for the SURSS Block 0 requirement and the Raven B UAS was selected as the solution for SURSS Block 1 requirement. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. As with the DE System, the air vehicle flies at an altitude of 300-500 feet above ground at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. A SURSS Block 1 system consists of three Raven B air vehicles, one Ground Control Station (GCS), one Remote Video Terminal (RTV), one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit, one Field Repair Kit (FRK), and one Initial Spares Package (ISP). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. This is a joint US ARMY/USSOCOM Program.</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#0305204N) 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# 0305204N.</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 2007	FY 2008
Accomplishment/Effort Subtotal Cost		4.642	4.270
RDT&E Articles Qty			
CAC2S: Program management support.			
COST (\$ in Millions)		FY 2007	FY 2008
Accomplishment/Effort Subtotal Cost		3.219	3.476
RDT&E Articles Qty			
CAC2S: System development testing, operational assessment, and live interface testing in accordance with continued sensor interface/integration, communications interface/interoperability validation. Additionally, regression testing following DT & OT system corrections; as well as, Information Assurance certification test scans, and Joint			

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		17.572	8.776	14.036
RDT&E Articles Qty				
CAC2S: Design, Development and Testing of 15 Engineering Developmental Models (EDM). Contract activities to complete System Development and Demonstration (SDD) to include Engineering Discrepancy Reports (EDR) corrections following Gov't DT and Operational Assessments. Additionally, MROC directed Engineering Change Proposals (ECP) development and implementation.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.993	0.000	0.000
RDT&E Articles Qty				
CTN: Engineering Development Model (EDM) hardware and software development and support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.712	2.040	1.243
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.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.834	2.105	0.270
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.878	1.050	0.000
RDT&E Articles Qty				
CTN: Program management support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
COMMAND POST/DERF CRITICAL INFRA: VTC Coop Engineering.				

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.960	2.552	1.933
RDT&E Articles Qty				
MACCS SUSTAINMENT: Hardware obsolescence upgrades for the TAOM, SAAWF, TIU, MCIU, ADCP, CIS and CDLS				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.795	2.413	1.913
RDT&E Articles Qty				
MACCS SUSTAINMENT: Planned software sustainment for the TAOM, ADCP and CDLS.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.091	0.000	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: MCCDC MOS analysis for MAGTF C2 integration support services.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		17.622	0.000	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Engineering and technical support services for government DT & OT. System engineering discrepancy report corrections, IA certification, and logistics and training development of system operation and maintenance manuals.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		4.499	0.000	0.000
RDT&E Articles Qty				
SIAP: Service System Engineering support to Joint SIAP System Engineering Organization.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.619	0.000	0.000
RDT&E Articles Qty				
SIAP: Engineering and analysis support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.038	0.265	0.334
RDT&E Articles Qty				
TBMCS: USMC TBMCS development.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.037	0.185	0.187
RDT&E Articles Qty				
TBMCS: MCTSSA TBMCS software support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.037	0.228	0.230
RDT&E Articles Qty				
TBMCS: Program management support.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.037	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:	
APPROPRIATION/BUDGET ACTIVITY		February 2008	
RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	1.000	1.000
RDT&E Articles Qty			
BTID: Program management support.			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.590	0.376
RDT&E Articles Qty			
BTID: Joint component led SDD.			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	1.387	1.021
RDT&E Articles Qty			
BTID: SDD Developmental Test Articles.			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.075	0.100
RDT&E Articles Qty			
BTID: Life Cycle Cost Estimate.			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.225	0.000
RDT&E Articles Qty			
SURSS: Funds programmed for the ongoing ACTD to apply lessons learned from OEF/OIF to assist in the development of new concepts of operations (CONOPS) and tactics, techniques and procedures (TTP).			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.000	0.246	0.376
RDT&E Articles Qty			
SURSS: Test and Developmental efforts for a STANAG compliant Mobile Remote Video Terminal and Ground Control Station to support the MCCDC family of UAS concept.			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	3.248	1.984	1.562
RDT&E Articles Qty			
COC: Continue engineering and manufacturing development effort of production representative modules.			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.886	0.800	0.728
RDT&E Articles Qty			
COC: Program Management Support			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	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).			

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.164	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 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.000	
RDT&E Articles Qty				
TIER II UAS: Operational Testing (OT).				
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	4.534	6.527	
RDT&E Articles Qty				
TIER II UAS: Navy Program Management Support.				
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.509	
RDT&E Articles Qty				
TIER II UAS: Development, testing and evaluation of Tier II UAS and payloads.				
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.067	
RDT&E Articles Qty				
TIER II UAS: Development of common UAS ground control station.				
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost	0.000	0.926	0.500	
RDT&E Articles Qty				
TIER II UAS: Program Management Support .				
(U) Total Cost \$	62.719	39.366	46.671	
(U) PROJECT CHANGE SUMMARY:	FY2007	FY2008	FY2009	
(U) FY 2008 President's Budget:	47.098	43.238	27.825	
(U) Adjustments from the President's Budget:				
(U) Congressional Reductions		-2.941		
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) FY09 Program Review				
(U) Reprogrammings	16.773	-0.296	18.846	
(U) SBIR/STTR Transfer	-1.152	-0.635		
(U) Minor Affordability Adjustments				
(U) FY 2009 President's Budget:	62.719	39.366	46.671	

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008						
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							
CHANGE SUMMARY EXPLANATION:									
(U) Funding: Funding changes in FY2007 and FY2009 is due to reprogrammings and recoloring of funds.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</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	34.823	13.536	49.339	65.449	58.809	19.974	5.164	Cont	Cont
(U) PMC, BLI #464000, CTN	0.000	10.525	15.784	20.982	18.127	0.531	0.000	0.000	65.949
(U) PMC, BLI #464000, MACCS SUSTAINMENT	13.151	34.113	2.590	6.468	1.229	1.226	1.228	Cont	Cont
(U) PMC, BLI #464000, TBMCS	3.981	1.934	3.895	3.527	2.328	3.696	3.797	Cont	Cont
(U) PMC, BLI #474700, SURSS	15.493	0.000	15.393	4.804	4.470	5.619	3.713	Cont	Cont
(U) PMC, BLI #464000, SURSS	0.000	11.474	0.000	0.000	0.000	0.000	0.000	0.000	11.474
(U) PMC, BLI #474700, Tier II UAS	0.000	0.000	0.000	20.305	9.513	18.858	15.757	Cont	Cont
(U) PMC, BLI #464000, BTIS	0.895	0.000	6.370	9.117	7.408	8.117	8.229	Cont	Cont
(U) PMC, BLI #419000, COC	326.981	47.653	14.883	23.373	28.723	17.453	18.312	Cont	Cont
(U) RDT&E,N 0305204N, Proj 3192, STUAS	0.000	6.144	25.489	18.051	15.000	15.000	7.500	Cont	Cont
(U) APN, BLI # 044400 STUAS	0.000	0.000	0.000	10.099	9.859	9.511	6.048	Cont	Cont
(U) D. ACQUISITION STRATEGY:									
(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. Following the SDD, a sole source (with approved J&A) low rate initial production (LRIP) contract will be awarded (Phased Pricing Fixed Fee). The Full Rate Production quantities will be competitively award and will rely on available commercial items and other equipment meeting the open systems architecture requirement.									
(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.									
(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).									
(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.									
(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. 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.									

EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	February 2008
RDT&E, N /BA-7 Operational Systems Development	0206313M Marine Corps Communications Systems	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): The Program Office is pursuing a rapid acquisition approach to quickly field new technology and capabilities to the warfighter. The strategy is to use evolutionary acquisition with two incremental developments to meet the final desired SURSS requirements. The SURSS Block 0, Dragon Eye, was the first increment and is currently fielded to deployed units. For the Block 1 increment the USMC adopted the USSOCOM Rucksack Portable UAV (RPUAV) ORD, which meets the USMC's requirement and began migrating to the joint materiel solution, the Raven B. The Army Program Manager for Unmanned Aircraft Systems is the program manager of record. By leveraging off of this joint program already in the production phase, the USMC is able to rapidly field systems to deployed warfighters.</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) FY06 - FY09 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 04. FY07 - FY09 SPAWAR, Charleston SC. Support Services. Jan 05. FY07 - FY09 Coherent Systems, Lexington Park, MD. System development, demonstration, integration, test and evaluation. Apr 05.</p> <p>COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S) FY07 - FY08 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 04</p> <p>COMPOSITE TRACKING NETWORK (CTN) FY07 - FY09 NSWC Crane, IN. Mobility platform integrator. Jan 04. FY07-FY09 Lockheed Martin, Syracuse NY. Radar integration. Jan 04. FY07-FY09 Science Applications International Corporation, St. Petersburg, FL. Antenna development and production. Jan 04.</p> <p>MACCS SUSTAINMENT FY07 - FY09 Northrop Grumman Electronic Systems, Woodland Hills, CA. TAOC Engineering and CETS services. Jan 04. FY07 - FY09 Ultra Electronics, Austin, TX. CDLS Engineering and Software services. March 06. FY07 - FY09 Carlisle Research Incorporated, Van Nuys, CA. TAOM Software Sustainment services. Feb 06. FY07 - FY09 Naval Surface Warfare Center, Crane, IN. ADCP, CIS, DASCAS, CDLS Engineering services. Oct 03. FY07 Raytheon, San Diego, CA; CAC2S Technical and Engineering Services for OT corrections. Feb 07. FY07 RCI, Vienna, VA; MAGTF C2 integration support services - MCCDC MOS analysis. Dec 06.</p> <p>BTID FY07 NSWC, Crane, IN, Engineering Services. FY07-FY08 MarCorSysCom support for component led Systems Development and Demonstration (SDD) phase. FY09 MarCorSysCom support for component led and developmental test. FY07 RNB Technologies, Inc., Stafford, VA Engineering services. Jan 04.</p> <p>SMALL UNIT REMOTE SCOUTING SYSTEM (SURSS) 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												
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 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	142.607	13.498	10/07	9.402	10/07	16.196	10/08	Cont	Cont	
CAC2S	WR	SPAWAR (Charleston)	3.880	0.882	10/07	0.600	10/07	0.300	10/08	Cont	Cont	
CAC2S	WR	DAHLGREN	1.180	0.876	10/07	0.876	10/07	0.900	10/08	0.000	2.956	
CAC2S	WR	SPAWAR (San Diego)	56.313	0.349	01/07	0.300	01/08	0.150	01/09	Cont	Cont	
CAC2S	RCP	NCTSI	0.068	0.030	12/06	0.030	12/07	0.030	12/08	Cont	Cont	
MACCS SUSTAINMENT	RCP	NGES, Woodland Hills, CA	8.558	2.366	03/07	2.552	03/08	1.933	03/09	Cont	Cont	
MACCS SUSTAINMENT	CPFF	CRL, Van Nuys, CA	4.820							0.000	4.820	
MACCS SUSTAINMENT	RCP	RCI, Vienna, VA		0.091	12/06					0.000	0.091	
MACCS SUSTAINMENT	CPIF	Raytheon, San Diego, CA		17.622	02/07					0.000	17.622	
SIAP	RCP	MCSC, Quantico, VA	39.028	7.118	01/07					0.000	46.146	
TBMCS	MIPR	ESC, Hanscom AFB	0.723			0.254	01/08	0.334	01/09	Cont	Cont	
TBMCS	MIPR	Greater Hampton, VA	0.100							0.000	0.100	
CTN	WR	NSWC, Crane, IN	4.236	0.779	01/07					0.000	5.015	
CTN	RCP	John Hopkins, Laurel, MD	0.265							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	3.398							0.000	3.398	
CTN	RCP	SAIC, San Diego, CA	6.078							0.000	6.078	
CTN	WR	NSWD, Bethesda, MD	0.025							0.000	0.025	
COC	WR	SPAWAR	5.397	0.790	01/07	0.581	01/08	0.940	01/09	Cont	Cont	
COC	RCP	General Dynamics	19.263	2.936	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	5.116							0.000	5.116	
Critical Infrastructure	RCP	SSC Charleston	1.410							0.000	1.410	
TIER II	TBD	TBD				0.164	01/08	3.283	12/08	Cont	Cont	
BTID	WR	NSWC, Crane, IN	1.968			0.552	01/08	TBD	TBD	Cont	Cont	
SURSS	RCP	AeroVironment, Simi Val	0.225			0.246	12/07	0.376	12/08	Cont	Cont	
SURSS	MIPR	USSOCOM, Tampa, FI	0.675			0.225	12/07			Cont	Cont	
Subtotal Product Development			305.333	47.430		17.985		25.792		Cont	Cont	

Exhibit R-3 Cost Analysis												
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 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	1.778	2.273	10/06	0.600	10/07			Cont	Cont	
CAC2S	WR	MCSC, Quantico, VA	2.812							Cont	Cont	
CAC2S	RCP	MCSC, Quantico, VA	4.258			0.250	10/07	0.250	10/08	0.000	4.508	
CAC2S	WR	NSWC, Crane, IN	1.042	0.230	10/06					Cont	Cont	
CAC2S	WR	JITC	0.357	0.114	10/06					Cont	Cont	
CAC2S	RCP	Lockheed Martin	0.480	0.434	10/06					0.000	0.914	
											0.000	
JCIET	WR	MCSC, Quantico, VA	0.479							0.000	0.479	
JCIET	WR	NSWC, Crane, IN	0.449							0.000	0.449	
JCIET	RCP	Anteon, Stafford, VA	2.504							0.000	2.504	
JCIET	RCP	CACI, Chantilly, VA	0.040							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	0.126	0.200	06/07	0.200	06/08	0.161	06/09	Cont	Cont	
MACCS Sustainment	WR	NSWC, Crane, IN	2.672	0.600	01/07	0.495	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	0.358			0.105		0.105	01/09	Cont	Cont	
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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
Subtotal Support (Cont.)												
TBMCS	WR	MCSC, Quantico, VA	0.283	0.054	01/07	0.091	01/08	0.082	01/09	Cont	Cont	
TIER II	TBD	TBD						0.500	12/09	Cont	Cont	
BTID	TBD	TBD				1.100	TBD	1.021	TBD	Cont	Cont	
CTN	WR	NA	0.090							0.000	0.090	
CTN	WR	MCSC, Quantico, VA	0.120							0.000	0.120	
CTN	RCP	Raytheon, St. Peters., FL		0.554	01/07	2.382	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			20.239	6.090		7.623		3.871		Cont	Cont	
Remarks:												

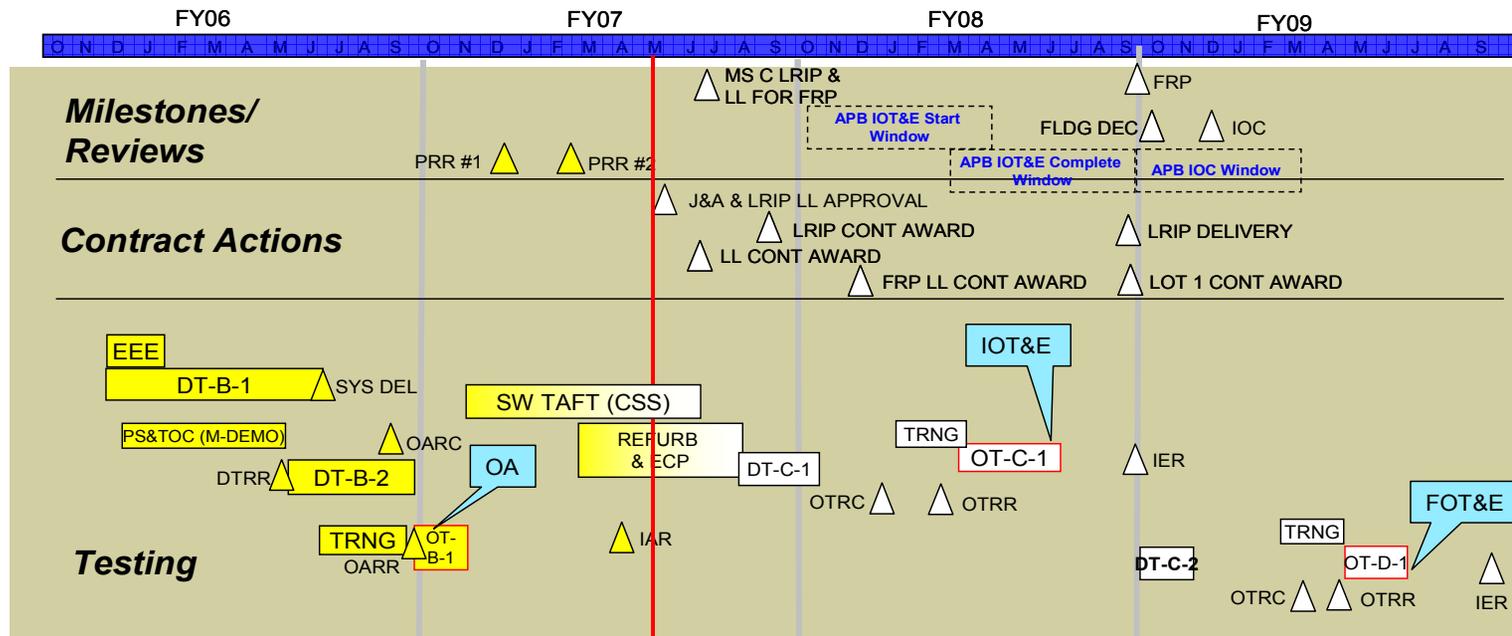
Exhibit R-3 Cost Analysis

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 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		0.589	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	0.195	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	0.927	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	MIPR	MITRE	1.460	0.608	11/07	0.220	10/08	0.220	10/08	Cont	Cont	
CAC2S	WR	MACCS X	0.620	0.300	11/07	0.150	10/08	0.150	10/08	Cont	Cont	
CAC2S	WR	MCTSSA, CPndlt, CA	0.956	0.400	11/07	0.400	10/08	0.400	10/08	0.000	1.756	
CAC2S		MCOTEA TESTING	1.075	1.075	11/07	1.194	10/08	1.075	11/08			
COC		MCOTEA TESTING	0.590							0.000	0.590	
TIER II	TBD	TBD						2.343	12/08	Cont	Cont	
BTID	WR	MCOTEA TESTING				1.400	01/08	1.476	01/09	Cont	Cont	
MACCS SUSTAINMENT	WR	NSWC, Crane, IN	0.030			0.168	01/08			0.000	0.030	
TBMCS		MCOTEA TESTING	0.114	0.063	01/07	0.075	01/08	0.077	01/09	Cont	Cont	
Subtotal T&E			6.461	3.647		4.377		6.354		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	0.911							0.000	0.911	
TBMCS	FFP	L-3 Com, Stafford, VA				0.228	01/08	0.230	01/09	Cont	Cont	
CAC2S	IDIQ	NGMS, Stafford, VA	18.746	3.200	10/07						21.946	
CAC2S	IDIQ	QNA, Stafford, VA				1.600	11/08	1.147	11/08	Cont	Cont	
CAC2S	RCP	NOBLIS	3.746	0.900	10/08	0.900	10/08	0.900	10/08	0.000	5.546	
CAC2S	RCP	Booze Allen Hamilton	0.453	0.264	10/08					0.000	0.717	
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	NA		0.010	01/07	0.040	01/08	0.020	01/09	Cont	Cont	
CTN	IDIQ	NGMS, Stafford, VA	2.165	0.362	01/07	0.400	01/08	0.360	01/09	Cont	Cont	
TIER II	TBD	TBD				0.926	03/08	0.950	12/08	Cont	Cont	
TIER II	TBD	Navy PMA-263				4.534	01/08	6.527	01/09	Cont	Cont	
COC	IDIQ	NGMS, Stafford, VA	3.593	0.408	01/07					0.000	4.001	
Subtotal Management			29.614	5.552		9.381		10.654		Cont	Cont	
Total Cost			361.647	62.719		39.366		46.671		Cont	Cont	

DATE: February 2008

Exhibit R-4-4a Project Schedule/Detail		DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Systems Deve	0206313M Marine Corps Communications Systems	C2273 Air Operations C2 Systems

CAC2S PROGRAM SCHEDULE



OA/OTRC – Operational Assessment/Test Readiness Certification
 OA/OTRR – OA/OT Readiness Review
 PRR – Production Readiness Review
 PS&TOC – Product Support & Total Ownership Cost
 TAFT – Test, Analyze, Fix, Test

INCREMENT 2 DEVELOPMENT
(ATC, MAGTF C2, MODE V, IPV6, IABM)

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, C2273, CAC2S	46.360	25.433	16.522	21.718	2.303	0.000	0.000	0.000	0	112.336
(U) PMC, BLI #464000, CAC2S	3.759	34.823	13.536	49.339	65.449	58.809	19.974	5.164	32.600	283.453

DATE: **February 2008**

Exhibit R-4-4a Project Schedule/Detail

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

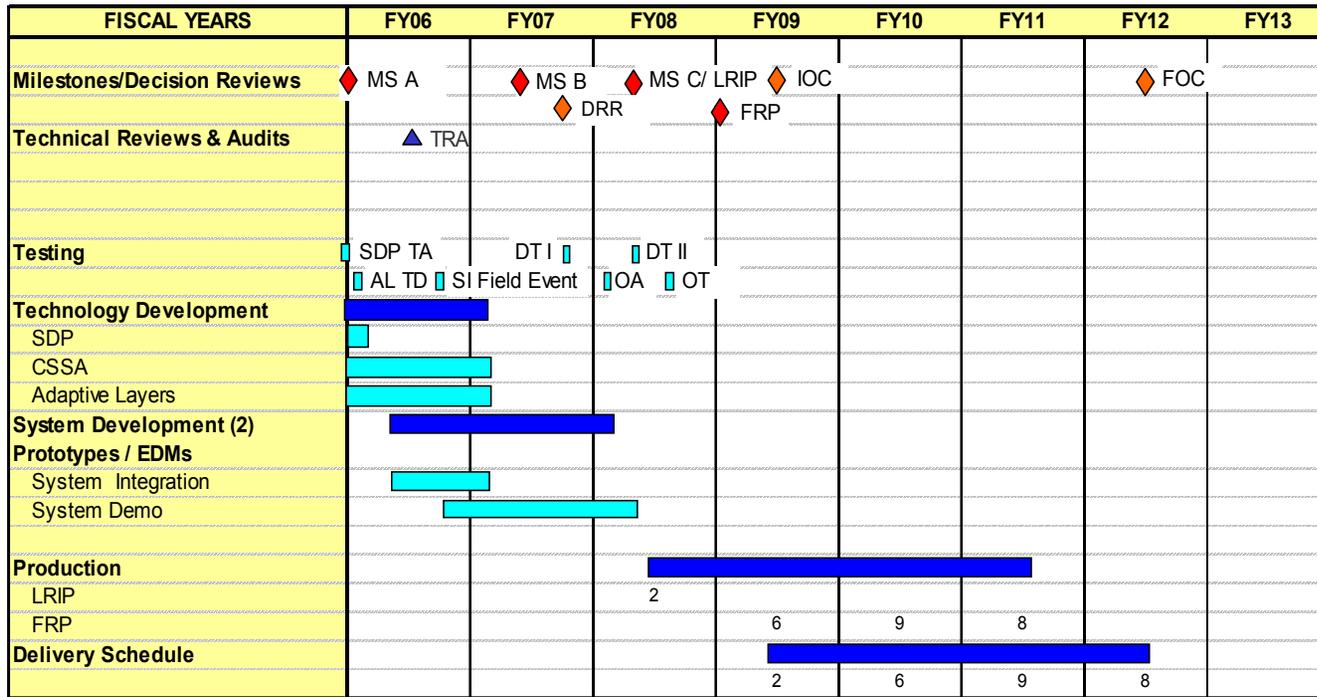
CAC2S SCHEDULE DETAIL	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone B (completed 1st Qtr FY03)								
SDD	+++++							
DT	1st Qtr							
OA	4th Qtr							
Long Lead Items		3rd Qtr						
Milestone C		3rd Qtr						
OT			1st Qtr					
LRIP		4th Qtr	+++++					
IOC			4th Qtr					
Production				2nd Qtr	+++++			
Increment II of CAC2S Development				4th Qtr	+++++			
Increment II of CAC2S Production						2nd 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

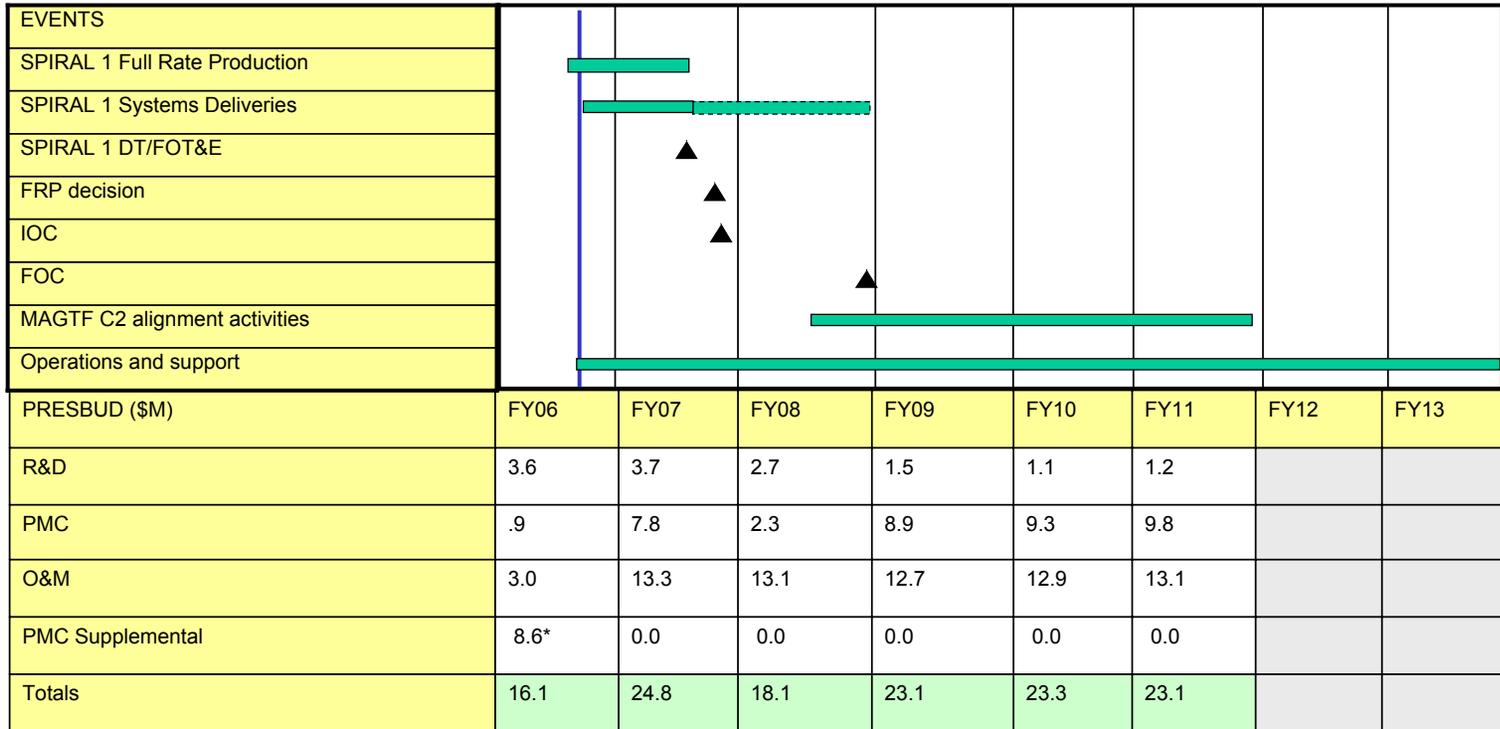
CTN PROGRAM SCHEDULE



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 #,										
(U) RDT&E,N, C2273, CTN (formally CEC)	4.679	3.417	5.195	1.513	1.514	1.413	1.007	0.502	Cont	Cont
(U) PMC, BLI #464000, CTN	0.000	0.000	10.525	15.784	20.982	18.127	0.531	0.000	0.000	60.809

Exhibit R-4/4a Schedule Profile/Detail		Date: February 2008
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	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(APPN, BLI #,										
(U) RDT&E,N, C2273, COC	3.628	4.134	2.784	2.290	7.287	1.275	0.360	0.360	Cont	Cont
(U) PMC, BLI #419000, COC	5.056	326.981	47.653	14.883	23.373	28.723	17.453	18.312	Cont	Cont

APPROPRIATION/BUDGET ACTIVITY
RDTE&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

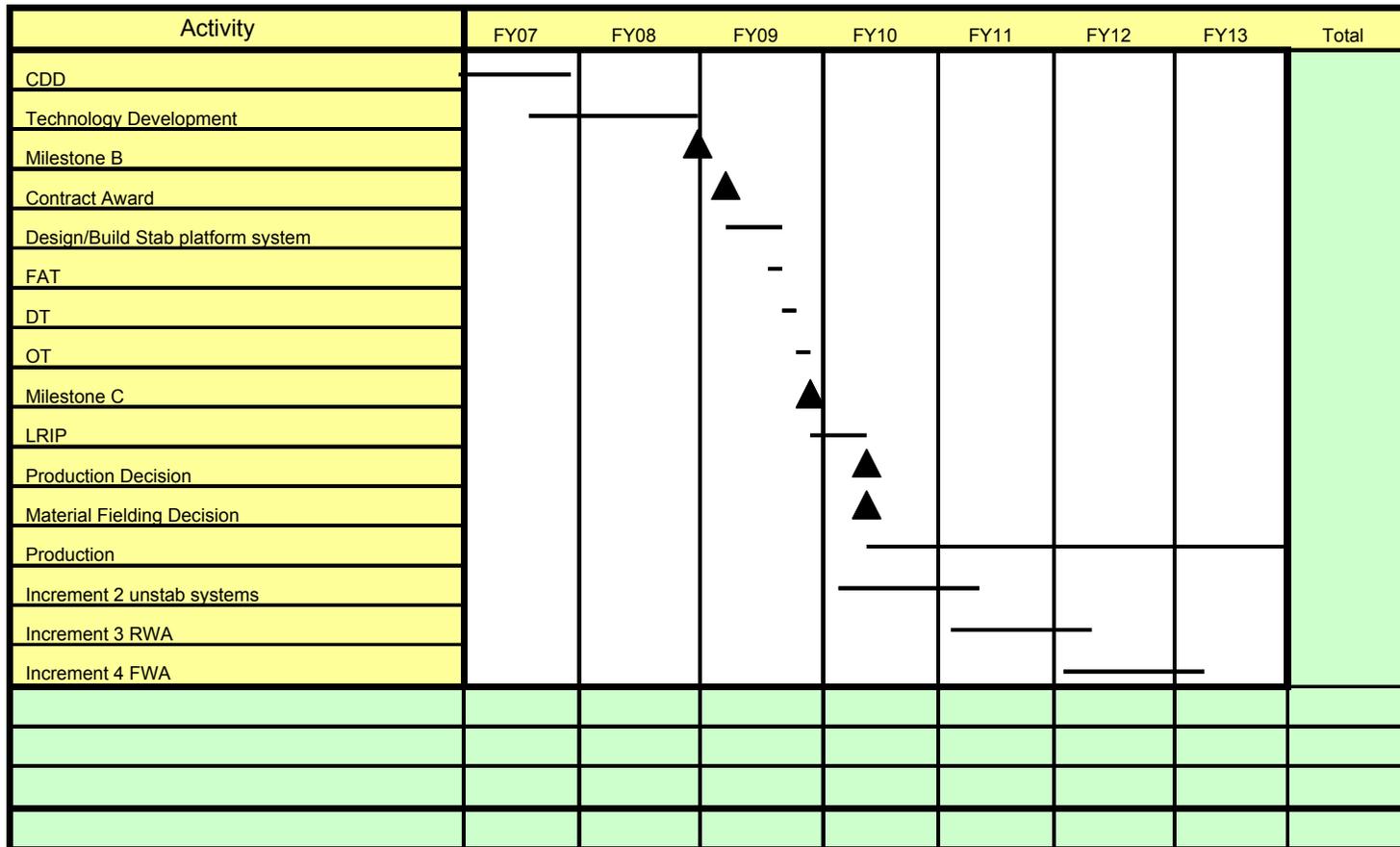
COC SCHEDULE DETAIL	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 012	FY 2013
Milestone B (2nd Qtr FY 02)									
System Development and Demonstration									
IOT&E		2nd Qtr							
Milestone C									
LRIP Deliveries									
IOC			3rd Qtr						
Full Rate Production					TBD				
Production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

BATTLEFIELD TARGET IDENTIFICATION DEVICE 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, C2278A, BTID	3.392	2.150	0.000	0.030	0.000	0.000	0.000	0.000	0.000	5.572
(U) RDT&E,N, C2273C, BTID	0.000	0.000	3.052	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

Exhibit R-4/4a Schedule Profile/Detail							Date: February 2008																																																																																																																	
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 SCHEDULE DETAIL																																																																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">BTID SCHEDULE</th> <th>FY 2004</th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th>FY 2008</th> <th>FY 2009</th> <th>FY 2010</th> <th>FY 2011</th> <th>FY 2012</th> <th>FY 2013</th> </tr> </thead> <tbody> <tr> <td>Milestone A</td> <td>1st Qtr</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Milestone B</td> <td></td> <td></td> <td></td> <td></td> <td>4th Qtr</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Integration Testing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2nd Qtr</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> </tbody> </table>											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					4th Qtr						Integration Testing						2nd Qtr																																																																						
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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2008						
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 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost				4.248	3.977	2.592	0.811	0.826	0.326	0.335
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
<p>(U) The Network Planning and Mangement (NPM) is a portfolio of communications planning and Network Management System (NMS) applications for use throughout the Marine Air Ground Task Force (MAGTF). NPM includes Joint Network Management System JNMS and the Systems Planning Engineering and Evaluation Device (SPEED). JNMS provides the MARFOR component planners with the Joint mandated software needed to conduct high-level planning; detailed planning and engineering; monitoring; control and reconfiguration; spectrum planning and management; and security in support of Combatant Commander (COCOM) and Commander, Joint Task Force (CJTF) operations. SPEED is software used for Radio Frequency (RF) communications analysis by JNMS, other Services and for System Planning and Engineering (SPE) throughout the MAGTF. SPEED provides High Frequency (HF) predictions, Line of Site (LOS) propogation, Radio Coverage Analysis (RCA) and related communicatons network planning and management.</p> <p>(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 elements with improved voice/data switching, data transport and bandwidth management capabilities. This program will maintain USMC joint interoperability as all Services transition to COTS switching technologies.</p> <p>(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, forming the communications backbone for Tactical Data Systems (TDS) and the Defense Messaging System (DMS). TDN consists of Gateways (AN/TSQ-222) and Data Distribution Systems (AN/TSQ-228), interconnected with one another and their subscribers via a combination of common user long-haul transmission systems, local area networks (LAN), and switched telephone systems. The TDN PIP provides a smaller and more mobile variant DDS for the Battalion, Secure Wireless LAN capability for enhanced mobility, integrates security interdiction products into the Gateway; and provides critical refresh of non-MCHS network components such as routers, switches, converters, and tactical peripherals.</p> <p>(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 (DCTS) DISA Standard to initial response teams to communicate with higher HQ until larger Command and Control C2 systems are established. This is an On-The-Move/Enroute capability.</p> <p>(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 Shelter (LMS), providing secure and non-secure voice and data communications, switching functions, network routing and management, and global broadcast functions. The S-788/G LMS is mounted on a Heavy-variant High Mobility Multipurpose Wheeled Vehicle (H-HMMWV) and can be connected to a quick-erect general purpose tent.</p>										
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:										
COST (\$ in Millions)				FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				1.834	2.156	0.018				
RDT&E Articles Qty										
NPM: Develop unique USMC models for JNMS and Developmental work for SPEED Net Centric enhancements.										
COST (\$ in Millions)				FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.692	0.000	0.000				
RDT&E Articles Qty										
TSM: Integration Testing and Training Device Engineering										
COST (\$ in Millions)				FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.000	0.185	0.000				
RDT&E Articles Qty										
TSM: Development CBT for TSM training										
COST (\$ in Millions)				FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.000	0.000	0.941				
RDT&E Articles Qty										
TSM: Development of Global Satellite Mobile Telephone.										

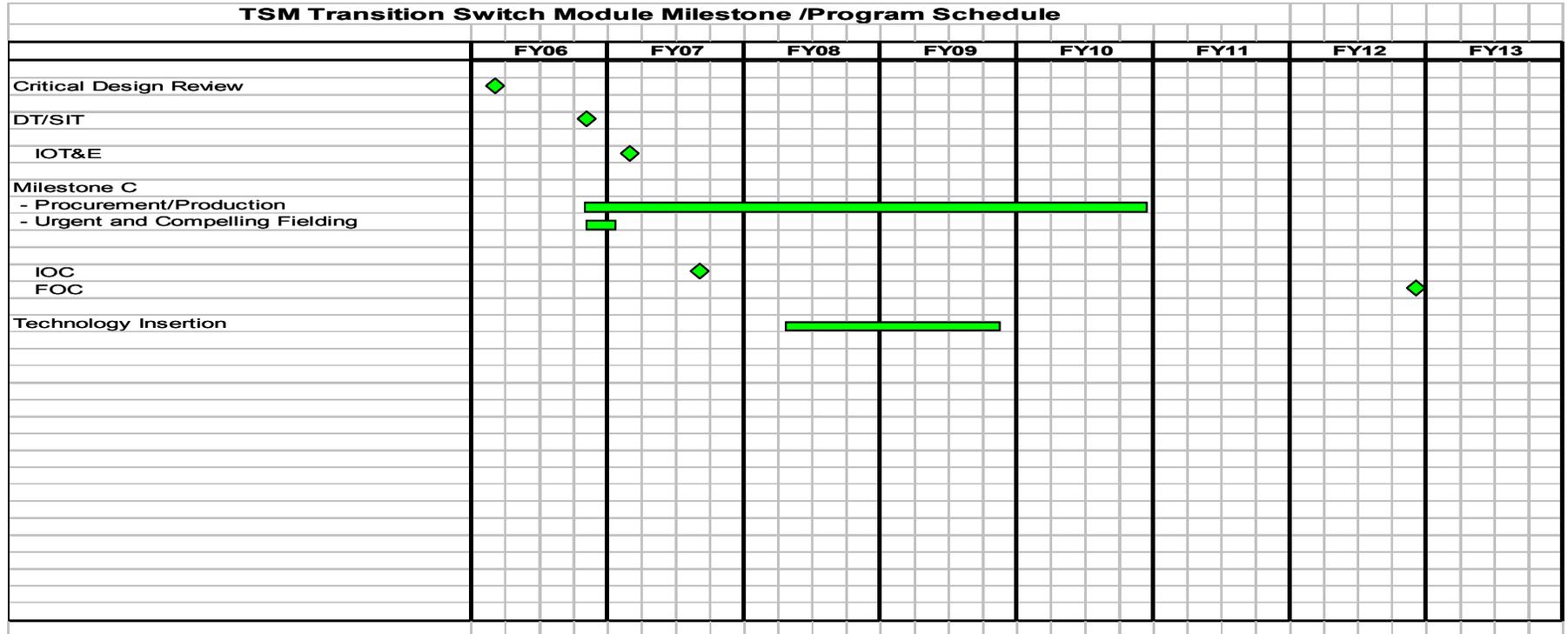
EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008							
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME							
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems							
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		1.350	1.487	1.008					
RDT&E Articles Qty									
ECCS: Analysis of alternatives life cycle mode									
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		0.364	0.000	0.000					
RDT&E Articles Qty									
FICCS: Program Support									
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		0.008	0.149	0.625					
RDT&E Articles Qty									
TDN: Test and Evaluate integrated software requirements.									
(U) Total \$		4.248	3.977	2.592					
(U) PROJECT CHANGE SUMMARY:									
(U) FY 2008 President's Budget:		<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>					
		4.477	4.783	2.574					
(U) Adjustments from the President's Budget:									
(U) Congressional Program Reductions			-0.731						
(U) Congressional Rescissions									
(U) Congressional Increases									
(U) Reprogrammings		-0.117		0.018					
(U) SBIR/STTR Transfer		-0.112	-0.049						
(U) Minor Affordability Adjustment			-0.026						
(U) FY 2009 President's Budget:		4.248	3.977	2.592					
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 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)	11.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.327
ECCS	0.000	0.000	6.950	10.069	8.545	0.000	0.000	0.000	25.564
TSM	87.726	43.711	19.344	61.382	1.903	0.000	0.000	0.000	214.066
TACTICAL DATA NETWORK (TDN)	111.598	44.378	12.839	35.419	25.234	20.473	3.506	Cont	Cont

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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: FY 08/09 - (TSM) EDO/Darlington, Wando, SC. Develop training documentation and test package, MAR 06/FEB 08/DEC 08 FY07/08 (ECCS) - Contractor TBD. Develop and test miniaturized components that provide DISN services while On-The-Move/Enroute. NOV 06/NOV 07 FY07 (FICCS) - EDO/Darlington, Inc., Wando, SC. Integration of VoIP, Secure Wireless, and ATM Technologies, FEB 07 FY08/09 (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 2008					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Comm		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 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	0.597	0.550	01/07	0.000		0.000		Cont	Cont	
NPM (SPEED)	FFP	MCSC, Quantico, Va	2.193	0.881	01/07	2.156	01/08	0.018		Cont	Cont	
ECCS	FFP	Tecolote Research, CA	0.096	0.000	01/07	0.600	03/08	0.400	11/08	Cont	Cont	
FICCS	CPFF	EDO/Darlington, Inc. SC	0.381	0.000		0.000		0.000	02/09	Cont	Cont	
TSM	FFP	EDO/Darlington, Inc. SC	7.617	0.692	02/07	0.185	02/08	0.941	12/08	Cont	Cont	
Subtotal Product Dev			10.884	2.123		2.941		1.359		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	0.538	0.150	01/07	0.000		0.000		Cont	Cont	
NPM (Support Contractor)	FP	OSEC, Stafford, Va	1.031	0.253	01/07	0.000		0.000		Cont	Cont	
TSM (Support Contractor)	RC	TITAN, Stafford, Va	0.563			0.000		0.000				
ECCS	FFP	Tecolote Research, CA		0.000		0.609	03/08	0.308	11/08	Cont	Cont	
FICCS	CPFF	Support Contractor	0.450	0.364	01/07	0.000		0.000		Cont	Cont	
Subtotal Support			2.582	0.767		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 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	MP	Ft. Huachuca, AZ	0.000	1.350	01/07	0.278	03/08	0.300	12/08	Cont	Cont	
FICCS	WR	MCTSSA	0.257	0.000		0.000		0.000		Cont	Cont	
TDN	FFP	MCTSSA	0.555	0.008	03/07	0.149	01/08	0.625	01/09	Cont	Cont	
Subtotal T&E			0.812	1.358		0.427		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 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Subtotal Management			0.000	0.000		0.000		0.000		0.000	Cont	
Remarks:												
Total Cost			14.278	4.248		3.977		2.592		Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2008
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

TRANSITION SWITCH MODULE



Program Funding Summary

(APPN, BLI #,

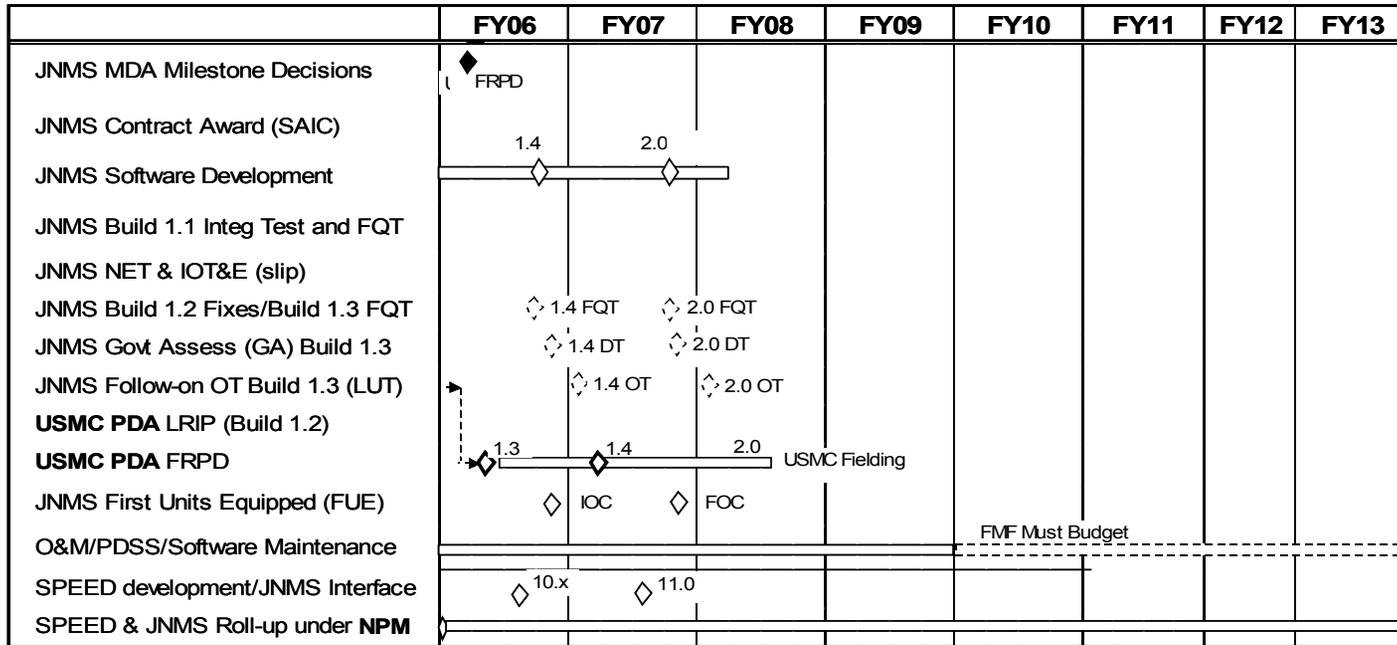
(U) RDT&E,N

(U) PMC BLI# 463400 Comm Switch & Control Sys TSM

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	0.692	0.185	0.941	0.307	0.322	0.326	0.335	Cont	Cont
(U) PMC BLI# 463400 Comm Switch & Control Sys TSM	87.726	43.711	19.344	61.382	1.903	0.000	0.000	0.000	214.066

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2008
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)



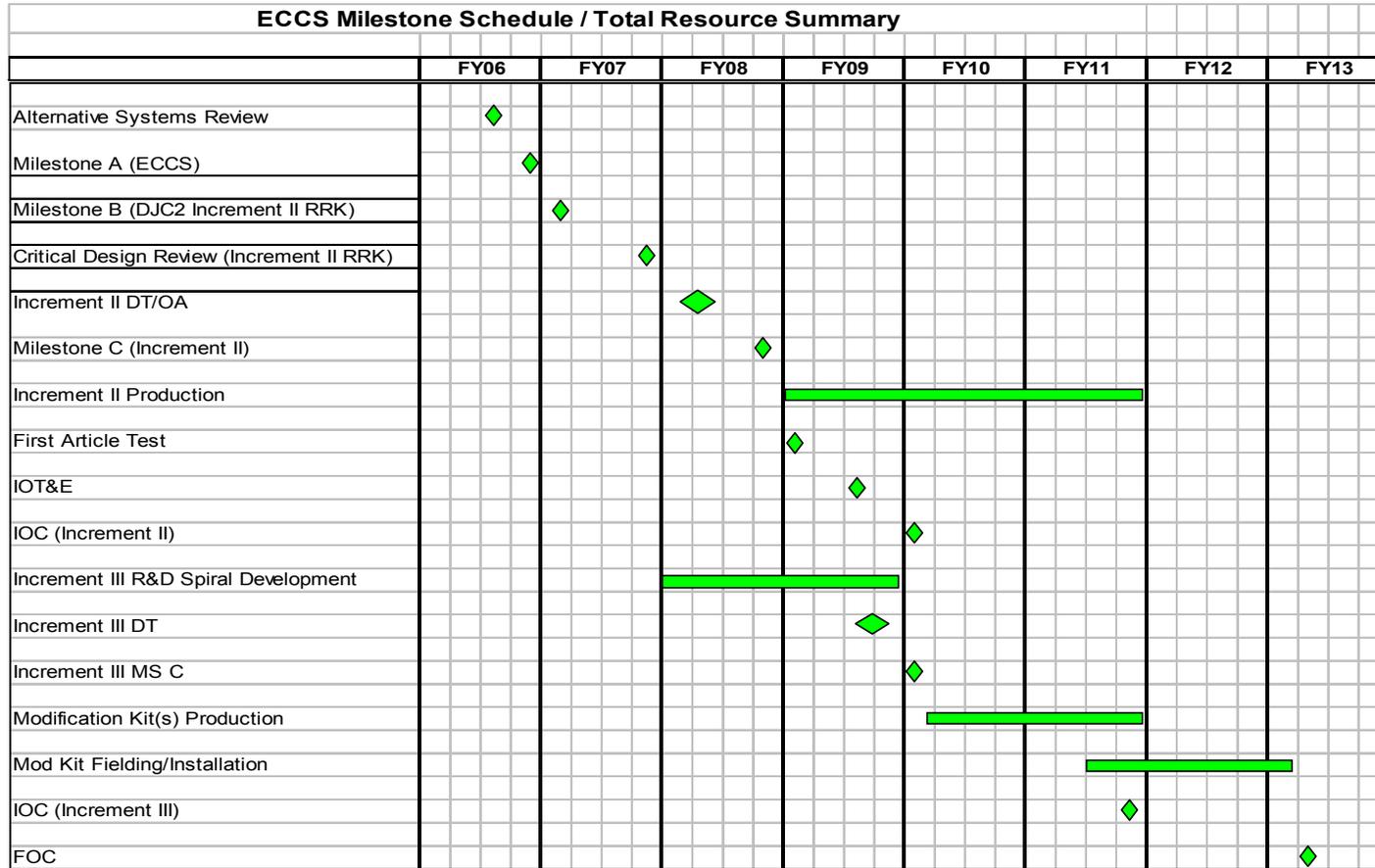
Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	1.834	2.156	0.018	0.000	0.000	0.000	0.000	Cont	Cont
(U) PMC BLI# 463400 CommSwitch& Ctl Sys -NPM (JNMS)	11.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.327

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2008
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



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N	1.350	1.487	1.008	0.504	0.504	0.000	0.000	0.000	4.853
(U) PMC, BLI#463400 Comm Switch & Control Sys (ECCS)	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:
APPROPRIATION/BUDGET ACTIVITY		February 2008
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 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 2008						
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		8.899	6.660	7.027	7.197	7.409	8.852	9.097
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
(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.								
Joint Distributed Engineering Plant (JDEP) JDEP directly supports the DoD mandated directive CJCSI 6212.01D, to evaluate the interoperability of the MAGTF C4I Capability produced by MARCORSYSCOM. This evaluation will be accomplished via the MAGTF C4I Capability Certification process where system of systems are evaluated for supporting joint forces, interoperability of new and fielded acquisition systems and provide an environment for engineering analysis to correct capability deficiencies and develop new capabilities that can operate in a joint environment.								
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). iaw Commander Joint Chiefs of Staff (CJCSI) 6610.01C and CJCS16241.04 for USMTF.								
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.								
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.								
(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:								
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		0.170	1.469	1.533				
RDT&E Articles Qty								
JDEP: Conducted development of the MAGTF C4I Capability Certification process which involved the creation of capability based test threads. Additionally created Joint Test Threads and participated in a JFCOM sponsored joint distributed test event. Plans are to conduct the first formal MAGTF C4I Capability certification event in FY 08.								
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost		1.193	1.554	1.625				
RDT&E Articles Qty								
JINTACCS: Joint development, implementation, and testing of data links under the direction of the JCS and OASD/NII.								

UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008			
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 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		1.036	1.265	align="right"> 1.323	
RDT&E Articles Qty					
CWID: to deter, prevent, and defeat threats and aggressions aimed at the US.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		6.500	2.372	align="right"> 2.546	
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>8.899</u>	<u>6.660</u>	align="right"> <u>7.027</u>	
(U) PROJECT CHANGE SUMMARY:					
	FY2007	FY 2008	FY 2009		
(U) FY 2008 President's Budget:	8.855	6.833	6.988		
(U) Adjustments from the President's Budget:					
(U) Congressional Program Reductions					
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	0.238				
(U) SBIR/STTR Transfer	-0.194	-0.094			
(U) Minor Affordability Adjustment		-0.079	0.039		
(U) FY 2009 President's Budget:	8.899	6.660	7.027		
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: FY06-FY07 Northrup Grumman, Stafford VA and OSEC, Stafford VA - Level of effort contracted for MAGTF C2 and GWOT related UUNS for Systems Engineering, Capability Certification, Architecture Development, Logistics Support, Acquisition and Program Management support for all 700+ USMC MAGTF C2 program. FY08 and beyond is planned to be re-competed.					

Exhibit R-3 Cost Analysis					DATE: February 2008								
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 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	3.978	0.500	12/06	0.751	12/07	0.750	12/08	Cont	Cont		
CWID	WR	MCSC Quantico, VA	0.149	0.150	12/06	0.105	12/07	0.119	12/08	Cont	Cont		
CWID	MIPR	JTIC -INDIAN HEAD	0.189	0.000	12/07	0.000	12/07	0.050	12/08	Cont	Cont		
Subtotal Product Dev			4.316	0.650		0.856		0.919		Cont	Cont		
Remarks:													
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	2.300	0.386	12/06	0.325	12/07	0.404	12/08	Cont	Cont		
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	9.660	2.572	10/06	1.000	10/07	1.230	10/08	Cont	Cont		
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.940	0.165	10/06	0.125	10/07	0.145	10/08	Cont	Cont		
MAGTF SEI&C	WR	MCTSSA, Cp Pndltm, CA	2.465	0.210	10/06	0.436	10/07	0.310	10/08	Cont	Cont		
MAGTF SEI&C	C/FFP	GD-AIS, Stafford VA	1.015	0.000		0.000		0.000					
MAGTF SEI&C	C/FFP	OSEC, Carlsbad CA	0.000	1.726	01/07	0.000		0.000					
MAGTF SEI&C	MIPR	DISN, Arlington, VA		0.146	04/07		04/08	0.146					
JDEP	T&M	SENSIS Syracuse NY	0.714	0.000		0.000		0.000		Cont	Cont		
JDEP	MIPR	NSWC - Crane	0.646	0.000		0.500		0.000		Cont	Cont		
JDEP		NSWC, Dahlgren, VA		0.000		0.500		0.000					
JDEP	C/FFP	OSEC, Carlsbad CA		0.170		0.000	11/07	0.716	11/07	Cont	Cont		
JINTACCS	C/FFP	NGIT, Stafford VA	2.088	0.180	10/06	0.554	10/07	0.840	10/08	Cont	Cont		
JINTACCS	WR	MCTSSA, Cp Pndltm, CA	2.125	0.823	10/06	1.000	10/07	0.785	10/08	Cont	Cont		
Subtotal Support			21.953	6.378		4.440		4.576		Cont	Cont		
Remarks:													
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	2.89	0.000	10/06	0.000		0.000		Cont	Cont		
JDEP	WR	SSCC, Charleston SC		0.000		0.469	11/07	0.817	11/08	Cont	Cont		
JDEP	WR	MCSC, Quantico, VA	0.000	0.000	10/06	0.000	10/07	0.000	10/08	Cont	Cont		
MAGTF SEI&C	MIPR	MITRE	4.387	0.592	10/06	0.500	10/07	0.421	10/08	Cont	Cont		
MAGTF SEI&C	C/FFP	EMA, Lexington Park MD		0.589	01/07	0.000		0.000					
JINTACCS	C/FFP	EMA, Lexington Park MD		0.190	01/07	0.000		0.000					
Subtotal T&E			7.277	1.371		0.969		1.238		Cont	Cont		
Remarks:													
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	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	1.066	0.500	10/06	0.395	10/07	0.294	10/08	Cont	Cont		
Subtotal Management			1.066	0.500		0.395		0.294		Cont	Cont		
Remarks:													
Total Cost			34.612	8.899		6.660		7.027		Cont	Cont		

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications System				PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems			
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project Cost		5.567	1.213	4.617	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.</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 A-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.</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. Funding in FY08 and beyond reside in C2273 within the same P.E.</p> <p>The Joint Combat Identification Evaluation Team (JCIET) is an 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 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		1.510	0.000	0.000					
RDT&E Articles Qty									
CLAWS: Program Management Support.									

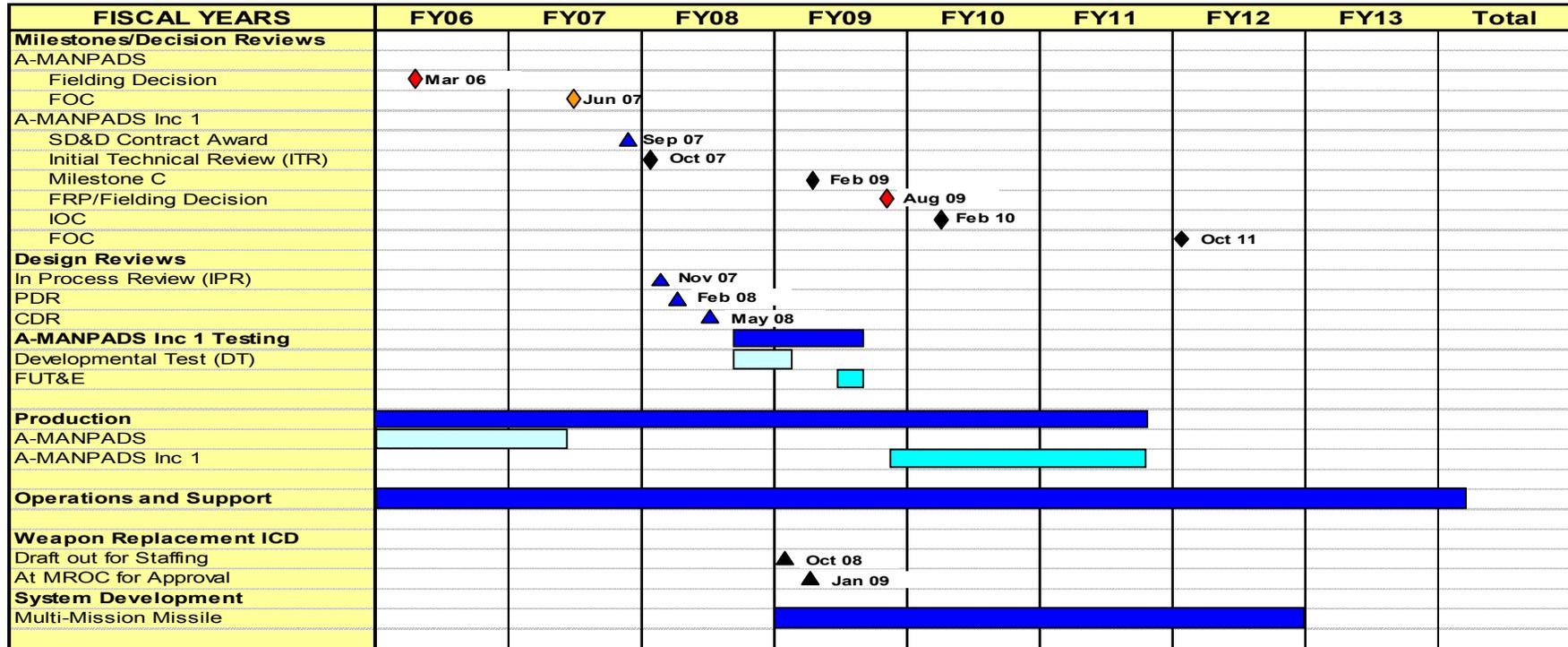
EXHIBIT R-2a, RDT&E Project Justification			DATE:	
			February 2008	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications System	C2278 Air Defense Weapons Systems		
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.260	0.278	0.483
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.277	0.283	0.506
RDT&E Articles Qty				
JCIET: Logistical Support for exercises. Funding prior to FY07 is found in Project C2273 within this PE.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.105	0.093	0.161
RDT&E Articles Qty				
JCIET: Program Management. Funding prior to FY07 is found in Project C2273 within this PE.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.024	0.000	0.115
RDT&E Articles Qty				
GBAD TRANSFORMATION: Program Management Services				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.350	0.110
RDT&E Articles Qty				
GBAD TRANSFORMATION: Product Development (CAC2S Integration)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.196	0.209	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Product Development (Remote Terminal Unit Replacement)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.045	0.000	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Integration development/test (PAS-13 Integration)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.470
RDT&E Articles Qty				
GBAD TRANSFORMATION: Support Costs (MCTSSA/MCCDC/Crane support)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.982
RDT&E Articles Qty				
GBAD TRANSFORMATION: Product Development (Multi Mission Missile)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	0.000	1.760
RDT&E Articles Qty				
GBAD TRANSFORMATION: Test and Evaluation (Remote Terminal Unit Replacement)				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.275	0.000	0.030
RDT&E Articles Qty				
BTIS: Program Management Support. Funding is found in Project C2273 within the same P.E. in FY08 and beyond.				

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008						
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 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		0.650	0.000	0.000					
RDT&E Articles Qty									
BTIS: Test and evaluation as part of the coalition Combat ID Adv Conecpt Tech Demo (CID ACTD) analysis. Funding is found in Project C2273 within the same P.E. in FY08 and beyond									
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		1.145	0.000	0.000					
RDT&E Articles Qty									
BTIS: Engineer Design Model. Funding is found in Project C2273 within the same P.E. in FY08 and beyond.									
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		0.080	0.000	0.000					
RDT&E Articles Qty									
BTIS: Life Cycle Cost Estimate. Funding is found in Project C2273 within the same P.E. in FY08 and beyond.									
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000					
RDT&E Articles Qty									
MCTIS (BTID): Support software development.									
(U) Total \$		5.567	1.213	4.617					
(U) PROJECT CHANGE SUMMARY:									
		FY2007	FY2008	FY2009					
(U) FY 2008 President's Budget:		6.399	1.859	4.587					
(U) Adjustments from the President's Budget:									
(U) Congressional Program Reductions			-0.623						
(U) Congressional Rescissions									
(U) Congressional Increases									
(U) Reprogrammings		-0.728							
(U) SBIR/STTR Transfer		-0.104	-0.015						
(U) Minor Affordability Adjustment			-0.008	0.030					
(U) FY 2009 President's Budget:		5.567	1.213	4.617					
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See Above.									
(U) Schedule: Not Applicable									
(U) Technical: CLAWS program was suspended prior to fielding.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</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 300600 GBAD-T	6.801	1.975	12.569	11.625	14.443	14.746	15.088	Cont	Cont
(U) PMC LINE BLI 464000 BTID	0.895	0.000	6.370	9.117	7.408	8.117	8.229	0.000	40.136

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications System	PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems
(U) D. ACQUISITION STRATEGY:		
<p>(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 is principally comprised of integrating Government Off The Shelf (GOTS) equipment and Non-developmental Items (NDI).</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 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 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>		
(U) E. MAJOR PERFORMERS		
CLAWS:		
FY07 Raytheon, Tewksbury, MA. Program closeout.		
GBAD Transformation:		
FY07 NSWC, Crane, IN. Technical Engineering Services.		
FY08 L3 San Diego, CA CAC2S Integration and RTU Replacement		
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-3 Cost Analysis						February 2008							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys				C2278 Air Defense Weapons Systems						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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
CLAWS	RCP	Raytheon, Andover, MA	6.226									Cont	Cont
CLAWS	RCP	MCSC Quantico, VA	1.726									Cont	Cont
CLAWS	MIPR	White Sands, NM	4.320									Cont	Cont
CLAWS	WR	MCOTEA, Quantico, VA	2.348									Cont	Cont
CLAWS	MIPR	JSPO, Eglin, AFB, FL	5.053									Cont	Cont
CLAWS	MIPR	Pt. Mugu, CA	2.492									Cont	Cont
CLAWS	MIPR	PEO ASMD	1.906									Cont	Cont
CLAWS	MIPR	SHORAD	1.494									Cont	Cont
CLAWS	MIPR	Aberdeen, Maryland	0.142										
GBAD TRANSFORMATION	MIPR	WSMR, NM	0.138							1.270	1Q 09		
GBAD TRANSFORMATION	MIPR	Aberdeen, MD	0.047									0.000	0.047
GBAD TRANSFORMATION	WR	MCOTEA, Quantico, VA	0.000							0.550	1Q 09		
BTID (MCTIS)	WR	MCOTEA, Quantico, VA	0.160										
JCIET	RCP	MCSC, Quantico, VA	0.000			0.318	1Q 07	0.490	1Q 08	0.851	1Q 09	Cont	Cont
JCIET	WR	4th MAW	0.000			0.077	1Q 07	0.079	1Q 08	0.138	1Q 09	Cont	Cont
JCIET	RCP	MCSC, Quantico, VA	0.000			0.124	3Q 07						
JCIET	WR	NSWC, Crane, IN	0.000			0.036	1Q 07						
Subtotal T&E			26.052			0.555		0.569		2.809		Cont	Cont
Remarks:													
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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
CLAWS	WR	MCTSSA Cp Pendleton CA	0.264									Cont	Cont
CLAWS	WR	NSWC Crane, IN	1.064									Cont	Cont
CLAWS	MIPR	AMRDEC Redstone Arsenal, AL	2.075									Cont	Cont
CLAWS	WR	MCSC, Quantico, VA	0.922									Cont	Cont
GBAD TRANSFORMATION	WR	MCTSSA, Camp Pendleton, CA								0.091	1Q 09	Cont	Cont
GBAD TRANSFORMATION	WR	MCSC, Quantico, VA	0.031			0.069	1Q 07			0.024	1Q 09	Cont	Cont
BTID (MCTIS)	RCP	MCSC, Quantico, VA	3.211			0.500	2Q 07			0.030	4Q 09	Cont	Cont
BTID (MCTIS)	RCP	Tecolote, Goleta, CA	0.155			0.070	2Q 07					0.000	0.075
BTID (MCTIS)	RCP	CACI, Chantilly, VA	0.033										
Subtotal Management			7.755			0.639		0.000		0.145		Cont	Cont
Remarks:													
Total Costs			67.668			5.567		1.213		4.617		Cont	Cont

Project Schedule GBAD-T

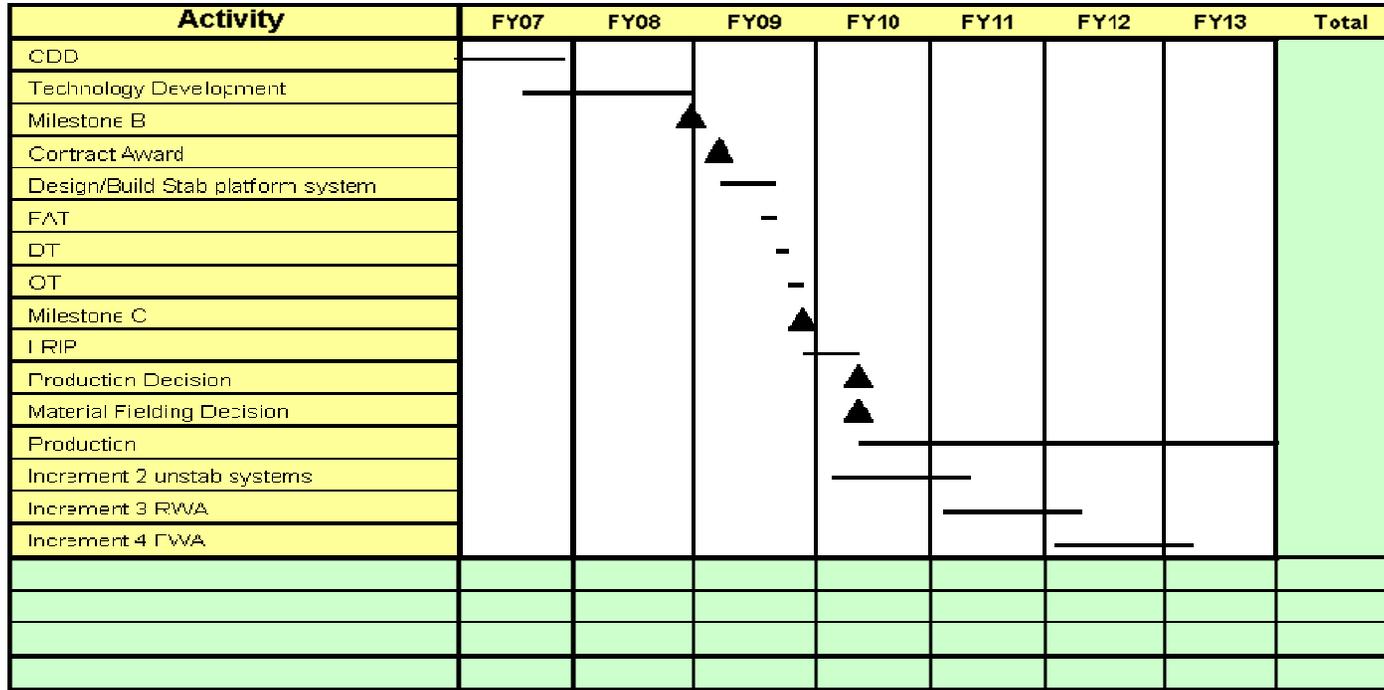


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(APPN, BLI #)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDTEN	1.265	0.559	3.437	2.837	3.303	3.384	3.460	Cont	Cont
(U) PMC LINE BLI	6.801	1.975	12.569	11.625	14.443	14.746	15.088	Cont	Cont
300600 GBAD-T									

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						
Advanced MANPADS Increment 1								
IOC					2nd Qtr			
FOC							1st Qtr	
Multi Mission Missile								
Technology Development				1st Qtr				

BTID Program Schedule



<u>Summary</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>
(APPN, BLI #,									
(U) RDTEN	2.150	0.000	0.030	0.000	0.000	0.000	0.000	0.000	5.542
(U) PMC LINE BLI	0.895	0.000	6.370	9.117	7.408	8.117	8.229	0.000	40.136
464000 BTID									

BTID SCHEDULE DETAIL	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					4th Qtr					
Milestone C						4th Qtr				
Production Decision							2nd Qtr			
Material Decision							2nd Qtr			

(U) FY 2009 President's Budget:

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008			
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 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013	
Project Cost		35.230	34.927	15.233	11.891	27.078	35.693	21.684	
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 2008
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>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>		

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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) B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.890	0.778	1.014
RDT&E Articles Qty				
MCHS: Environmental testing of CISC/RISC workstations.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.460	0.344	0.565
RDT&E Articles Qty				
MCHS: Environmental testing of CISC/RISC servers.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		31.702	30.160	6.366
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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.815	0.543	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 S				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.344	0.882	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 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	2.121	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 c				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.019	0.099	3.101
RDT&E Articles Qty				
AIT: Development of software with AIT capabilities in conjunction with the DOD AIT implementation plan.				
(U) Total \$		35.230	34.927	15.233

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2008				
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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>						
(U) FY 2008 President's Budget:			35.178	36.647	38.841						
(U) Adjustments from the President's Budget:											
(U) Congressional Program Reductions				-1.072							
(U) Congressional Rescissions											
(U) Congressional Increases											
(U) Reprogrammings			0.901	0.000	-23.648						
(U) SBIR/STTR Transfer			-0.849	-0.422							
(U) Minor Affordability Adjustments				-0.226	0.040						
(U) FY 2009 President's Budget:			35.230	34.927	15.233						
CHANGE SUMMARY EXPLANATION:											
(U) Funding:											
(U) Schedule:											
(U) Technical:											
(U) C. OTHER PROGRAM FUNDING SUMMARY:											
<u>Line Item No. & Name</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			70.079	85.304	95.074	84.485	50.976	46.213	65.460	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: GCSS			13.399	0.000	18.271	8.131	5.520	2.789	2.115	Cont	Cont
PMC BLI 463500 COMM & ELEC INFRA SPT: PKI			0.347	0.720	0.802	0.969	1.140	1.340	1.532	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: AIT			2.331	14.358	12.470	14.167	16.857	19.113	19.069	Cont	Cont
PMC BLI 461700 COMBAT SPT SYS: TSP			1.674	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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 ensure 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 - 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 community. 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 3rd quarter FY07 and MS C during the 4th quarter FY08, with fielding to begin in the 4th quarter FY08 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 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 in 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 2008
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) E. MAJOR PERFORMERS:</p> <p>MCCHS:</p> <p>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:</p> <p>FY07 - Oracle, Reston, VA - Software, Training and Consulting; Northrop Grumman, Stafford, Va - Consulting and Engineering Support; SI Nov 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:</p> <p>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) :</p> <p>FY07 TBD (Software Developers) Oct 06 FY08 TBD (Software Developers) Oct 07 FY09 TBD (Software Developers) Oct 08</p> <p>Public Key Infrastructure (PKI):</p> <p>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):</p> <p>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>		

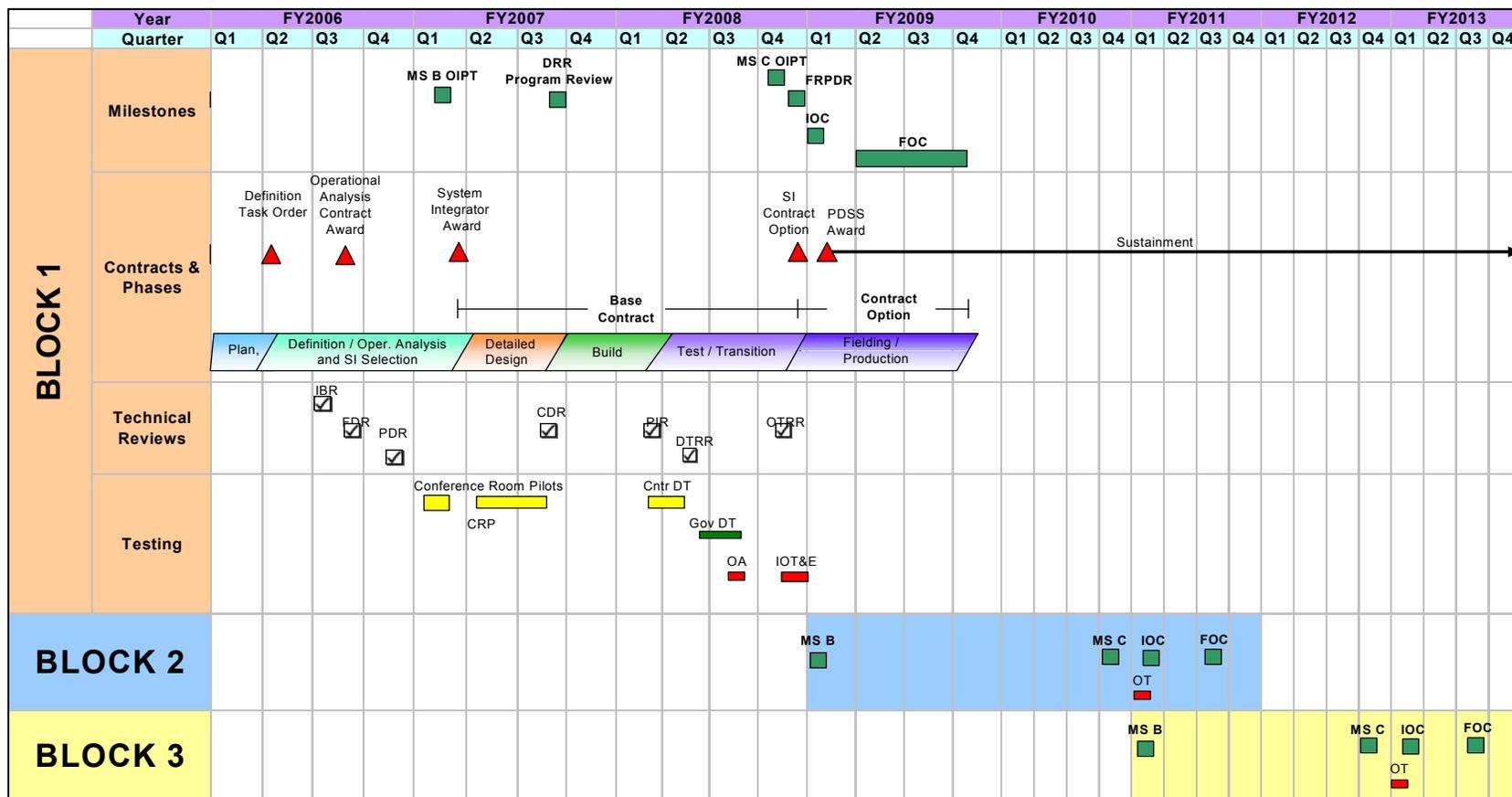
Exhibit R-3 Cost Analysis							DATE: February 2008							
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev				0206313M Marine Corps Communications Systems				C2510 MAGTF CSSE SE						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 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	0.715			0.438	12/06	0.136	12/07	0.149	12/08	Cont	Cont	
GCSS Logistics Chain Man-Block 1	C/FFP	Oracle USA, Reston VA	25.265			29.879	11/06	22.460	10/07				77.604	
GCSS Logistics Chain Man-Block 2	C/FFP	TBD	0.000							3.356	10/08	Cont	Cont	
GCSS Log C2 Systems	C/FFP	EDO Corp	4.066										4.066	
JFRG II	RCP	MCSC, Quantico, VA	1.443			0.200	10/06	0.882	06/08	0.500	10/08	Cont	Cont	
PKI	FFP	MCSC, Quantico, VA	0.000					2.121	TBD	1.873	TBD	Cont	Cont	
AIT	FFP	TBD	0.000							1.000	12/08	Cont	Cont	
Subtotal Product Dev			31.489			30.517		25.599		6.878				
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	IMPACT RES< Bethesda MD	0.000			0.143	02/07	0.143	01/08	0.143	01/09	Cont	Cont	
GCSS Logistics Chain Man	C/FFP	SMARTRONIX, California, MD	0.000			0.200	06/07	0.200	01/08	0.200	01/09	Cont	Cont	
AIT	TBD	TBD	0.000			0.019	01/07	0.099	01/08		01/09	Cont	Cont	
Subtotal Support			0.000			0.362		0.442		0.343				
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	4.219			1.350	01/07	1.122	01/08	1.579	01/09	Cont	Cont	
Transportation System Portfolio	MIPR	SDDC	0.505			1.229	01/07	0.136	12/07	0.150	12/08	Cont	Cont	
Transportation System Portfolio	MIPR	ARMY	0.350					0.136	12/07	0.150	12/08	Cont	Cont	
Transportation System Portfolio	RCP	ANTEON	0.271			0.148	12/06	0.135	12/07	0.151	12/08	Cont	Cont	
GCSS Logistics Chain Man	WR	MCOTEA, Quantico,VA	6.381			0.300	01/07	6.157	10/07	1.467	10/08	Cont	Cont	
GCSS Log C2 Systems	WR	MCOTEA, Quantico,VA	1.436										1.436	
AIT	RCP	TBD								1.101	12/08	cont	Cont	
JFRG II	RCP	MCSC, Quantico, VA				0.144				1.214	01/09	Cont	Cont	
Subtotal T&E			13.162			3.171		7.686		5.812		Cont	Cont	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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
AIT	FFP	TBD								1.000	12/08	Cont	Cont	
GCSS Logistics Chain Man	C/FFP	LOGIS-TECH, Manassas VA	2.400			1.180	02/07	1.200	10/07	1.200	10/08	Cont	Cont	
GCSS Log C2 Systems	C/FFP	Northrop, Stafford VA	0.478										0.478	
Subtotal Management			2.878			1.180		1.200		2.200		Cont	Cont	
Remarks:														
Total Cost						35.230		34.927		15.233		Cont	Cont	

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DATE: **February 2008**

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



Program Funding Summary
(APPN, BLI #, NOMEN)

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Program
(U) RDT&E,N	31.702	30.160	6.366	4.107	19.376	27.099	14.320	Cont	Cont
(U) PMC BLI 461700 COMBAT SPT SYS: GCSS	13.399	0.000	18.271	8.131	5.520	2.789	2.115	Cont	Cont

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2008
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

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008			
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			

COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	46.201	102.428	103.725	69.171	84.690	38.742	34.354
RDT&E Articles Qty							

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

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) the modernization initiative to replace the AN-TPS 59 Radar was not funded in POM 08. 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.

Ground Weapons Locating Radar (GWLRL) 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.

Ground/Air Task Oriented Radar (G/ATOR) (formerly known as the Multi-Role Radar System (MRRS)): G/ATOR is an Evolutionary Acquisition / Incremental Development Program designed to reduce the Total Ownership Costs associated with the four increments/missions. Increment I will fill the Short Range Air Defense (SHORAD) mission and medium range Air Surveillance mission. Increment II will fill the Ground Weapons Locating and Counter Fire / Counter Battery missions. Increment III will develop Tactical Enhancements to Increment I's design. Increment IV will fill the Air Traffic Control missions. Programmatically, MRRS & GWLRL merged into a single requirement/capability (G/ATOR) as the GWLRL Capability Development Document (CDD) was merged into the MRRS Operational Requirement Document (ORD) as Annex A. System Development and Demonstration (SDD) for Increment I began in the 4th Quarter of FY 05 and is scheduled to be completed in the 2nd Quarter of FY 10. IOT&E for Increment I is scheduled for the 2nd and 3rd Quarters of FY 11.

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.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	5.034	3.294	14.943
RDT&E Articles Qty			

AN/TPS-59 (Sustainment): Develop Engineering Change Proposals for software improvements and Diminishing Manufacturing Sources issues.

COST (\$ in Millions)	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	0.750	0.750	0.750
RDT&E Articles Qty			

AN/TPS-59 (Sustainment): Contractor service support.

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

AN/TPS-59 HELRASR SUP BALLISTIC: Modernization Develop Engineering, Technical Development.

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008		
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 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.052	0.000	0.000	
RDT&E Articles Qty					
HELRSR (Modernization): Perform Risk Mitigation analysis.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.294	0.000	0.000	
RDT&E Articles Qty					
HELRSR (Modernization): Develop Life Cycle Cost Estimate, System Test Plan.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000	
RDT&E Articles Qty					
HELRSR (Modernization): Acquisition Support.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000	
RDT&E Articles Qty					
HELRSR (Modernization): System development and demonstration for Risk Mitigation.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.774	0.000	0.000	
RDT&E Articles Qty					
GWLR: Radar Processor Redesign.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		1.454	0.000	0.000	
RDT&E Articles Qty					
GWLR: AN/TPQ-46A Recap/Upgrade.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.050	0.050	0.050	
RDT&E Articles Qty					
GWLR: Program office management/travel.					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000	
RDT&E Articles Qty					
GWLR: Contractor Technical, Programmatic, Engineering and Logistics Support					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.000	0.808	0.763	
RDT&E Articles Qty					
GWLR: Software/Hardware ECP's					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.000	0.907	0.967	
RDT&E Articles Qty					
GWLR: System Diminishing Manufacturing Sources (DMS)					

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008		
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 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		32.657	88.333	65.897	
RDT&E Articles Qty					
G/ATOR: Contractor Technical, Development Engineering/EDM					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.000	0.00	12.000	
RDT&E Articles Qty					
G/ATOR: Test and Evaluation					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.625	0.625	0.875	
RDT&E Articles Qty					
G/ATOR: In-house Program Management (Govt Salaries)					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.150	0.200	0.225	
RDT&E Articles Qty					
G/ATOR: Program Office Management & Travel Costs					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.930	0.600	0.600	
RDT&E Articles Qty					
G/ATOR: Gov't Tech Support					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.225	0.225	0.000	
RDT&E Articles Qty					
G/ATOR: Government Furnished Equipment (GFE)					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		2.614	6.400	6.400	
RDT&E Articles Qty					
G/ATOR: Engineering, Management, & Logistics Support					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.350	0.116	0.135	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Program Management Support					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		0.242	0.120	0.120	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Engineering and technical support					
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		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 2007	FY 2008	FY 2009	
Accomplishment/Effort Subtotal Cost		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)		46.201	102.428	103.725	

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2008

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
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(U) PROJECT CHANGE SUMMARY:	FY 2007	FY 2008	FY 2009
(U) FY 2008 President's Budget:	55.527	112.005	92.552
 (U) Adjustments from the President's Budget:			
(U) Congressional Reductions		-7.246	
(U) Congressional Rescissions			
(U) Congressional Undistributed Rescissions/Reductions		-0.724	
(U) Congressional Increases			
(U) Reprogrammings	-7.975		11.173
(U) SBIR/STTR Transfer	-1.351	-1.607	
(U) Minor Affordability Adjustment			
(U) FY 2009 President's Budget:	46.201	102.428	103.725

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 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	41.234	5.955	12.506	6.952	7.380	2.929	3.012	Cont	Cont
(U) PMC, BLI#465000, Grnd Weapons Locating Radar	9.650	123.425	2.149	2.566	2.868	2.163	2.160	Cont	Cont
(U) PMC, BLI#465000, Short/Medium Range Radar	4.287	0.451	0.421	0.410	0.342	0.702	0.561	Cont	Cont
(U) PMC, BLI#465000, Gmd/Air Task Oriented Radar	0.000	0.000	17.440	23.973	131.681	149.534	155.243	Cont	Cont

(U) Related RDT&E:

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

(U) D. ACQUISITION STRATEGY:

(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. Two Engineering Development Models (EDM) will be developed during the Increment I and Increment II SDD phases 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).

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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
<small>(U) G/ATOR contract was awarded in March 2007. Northrop Grumman Corporation is the Prime Contractor and Sensis is the major subcontractor.</small>		

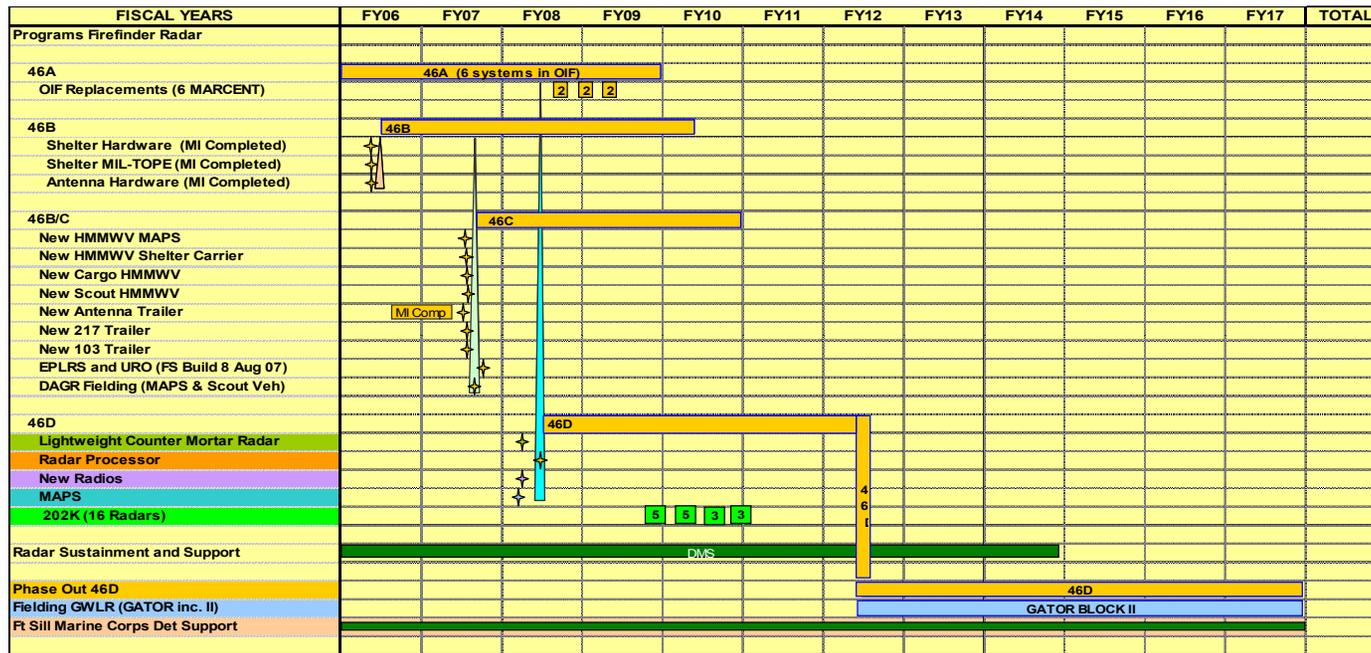
Exhibit R-3 Cost Analysis										DATE: February 2008				
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 OPERATIONAL SYS DEV				0206313M Marine Corps Communication Systems				C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 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	10.547			5.034	01/07	3.294	01/08	4.419	01/09	Cont	Cont	
AN/TPS-59 Sustainment	C/CPFF	Sensis, Syracuse NY	0.000			0.000	NA	0.000	NA	10.524	01/07	Cont	Cont	
AN/TPS-59 HELRASR	C/CPFF	Sensis, Syracuse NY	4.780			0.000	NA	0.000	NA	0.000	NA		2.820	
AN/TPS-59 HELRASR	C/CPFF	FT MONMOUTH NJ	0.100			0.000	NA	0.000	NA	0.000	NA		0.150	
SHORT/MEDIUM RANGE	RCP	Northrop Grumman	1.362			0.000	N/A	0.000	N/A	0.000	N/A	Cont	Cont	
G/ATOR	CPIF	Northrop Grumman	21.676			32.657	03/07	88.333	11/07	66.074	11/08	Cont	Cont	
G/ATOR (GFE)	MIPR	FT MONMOUTH NJ	0.800			0.000	N/A	0.200	11/07	0.000	N/A	Cont	Cont	
Subtotal Product Dev			39.265			37.691		91.827		81.017		Cont	Cont	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost			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	3.665			0.305	11/06	0.614	11/07	0.640	11/08	Cont	Cont	
GWLR	MIPR	US Army CECOM	0.912			1.020	11/06	0.400	11/07	0.350	11/08	Cont	Cont	
GWLR	WR	MCLB Barstow	0.298			0.902	11/06	0.330	11/07	0.350	11/08	Cont	Cont	
GWLR	WR	NSCW, Crane, IN	0.565			0.000	N/A	0.408	11/07	0.413	11/08	Cont	Cont	
HELTRASR (Modernization)	WR	MCSC, Quantico, VA	0.000			0.200	03/06	0.000	N/A	0.000	N/A	0.000		
SHORT/MEDIUM RANGE	WR	NSWC, Crane, IN	0.289			0.302	01/07	0.120	01/08	0.120	01/09	Cont	Cont	
G/ATOR (PBL)	C/FFP	EG&G Tech, Dumfries, VA	0.600			0.900	10/06	0.900	11/07	0.900	11/08	Cont	Cont	
G/ATOR (RADAR ENGINEER)	WR	NRL, Washington, DC	0.624			0.200	10/06	0.200	11/07	0.200	11/08	Cont	Cont	
G/ATOR	MIPR	MITRE, Boston, MA	0.700			0.350	11/06	0.350	11/07	0.350	11/08	Cont	Cont	
G/ATOR (RADAR ENGINEER)	WR	NAVAIR-John Lee	0.305			0.200	01/07	0.200	11/07	0.200	11/08	Cont	Cont	
G/ATOR	RCP	MCR Federal, MCSC	0.207			0.100	10/06	0.000	11/07	0.000	11/08	Cont	Cont	
G/ATOR	WR	NSWC-CRANE	0.720			0.200	12/06	0.200	11/07	0.200	11/08	Cont	Cont	
G/ATOR	C/FFP	MCSC, Quantico, VA	3.550			0.480	01/07	0.450	11/07	0.475	11/08	Cont	Cont	
G/ATOR	C/FFP	MCSC, Quantico, VA	4.006			0.200	01/07	0.200	11/07	0.200	11/08	Cont	Cont	
Subtotal Support			16.441			5.359		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 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	0.325			0.000	01/07	0.000		12.000		Cont	Cont	
Subtotal T&E			0.325			0.000		0.000		12.000		Cont	Cont	
Remarks:														

Exhibit R-3 Cost Analysis									DATE: February 2008					
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 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	General Dynamics Information	4.691			0.750	10/06	0.713	01/08	0.750	01/09	Cont	Cont	
HELRSR (Modernization)	C/CPFF	General Dynamics Information	0.000			0.152	10/06	0.000	N/A	0.000	N/A			
HELRSR (Modernization)	WR	MCSC, Quantico, VA	2.195			0.000	NA	0.000	N/A	0.000	N/A	Cont	Cont	
SHORT/MEDIUM RANGE	C/CPFF	General Dynamics Information	0.202			0.170	10/06	0.090	10/07	0.112	10/08	Cont	Cont	
SHORT/MEDIUM RANGE	WR	MCSC, Quantico, VA	0.064			0.115	12/06	0.026	12/07	0.023	12/08	Cont	Cont	
GWLR	WR	MCSC, Quantico, VA	0.324			0.050	10/06	0.050	10/07	0.050	10/08	Cont	Cont	
G/ATOR	RCP	Anteon, Stafford, VA	7.848			0.614	10/06	4.200	10/07	4.200	10/08	Cont	Cont	
G/ATOR (CAPDEV)	RCP	MCCDC, Quantico, VA	0.330			0.200	11/06	0.000	N/A	0.000	N/A	Cont	Cont	
G/ATOR (SALARIES)	MIPR	MCSC, Quantico, VA	0.745			0.650	01/07	0.650	10/07	0.650	10/08	Cont	Cont	
G/ATOR (TAD)	RCP	MCSC, Quantico, VA	0.291			0.150	10/06	0.200	10/07	0.225	10/08	Cont	Cont	
G/ATOR	C/CPFF	MCSC, Quantico, VA	0.200			0.300	10/06	0.300	10/07	0.300	10/08	Cont	Cont	
Subtotal Management			16.890			3.151		6.229		6.310		Cont	Cont	
Remarks:														
Total Cost			72.921			46.201		102.428		103.725			Cont	Cont

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2008
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)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
(U) RDT&E,N, C3099, GWLR	2.278	0.702	1.780	1.847	1.890	0.551	0.609	Cont	Cont
(U) PMC, BLI#465000, GWLR	9.650	123.425	2.149	2.566	2.868	2.163	2.160	Cont	Cont

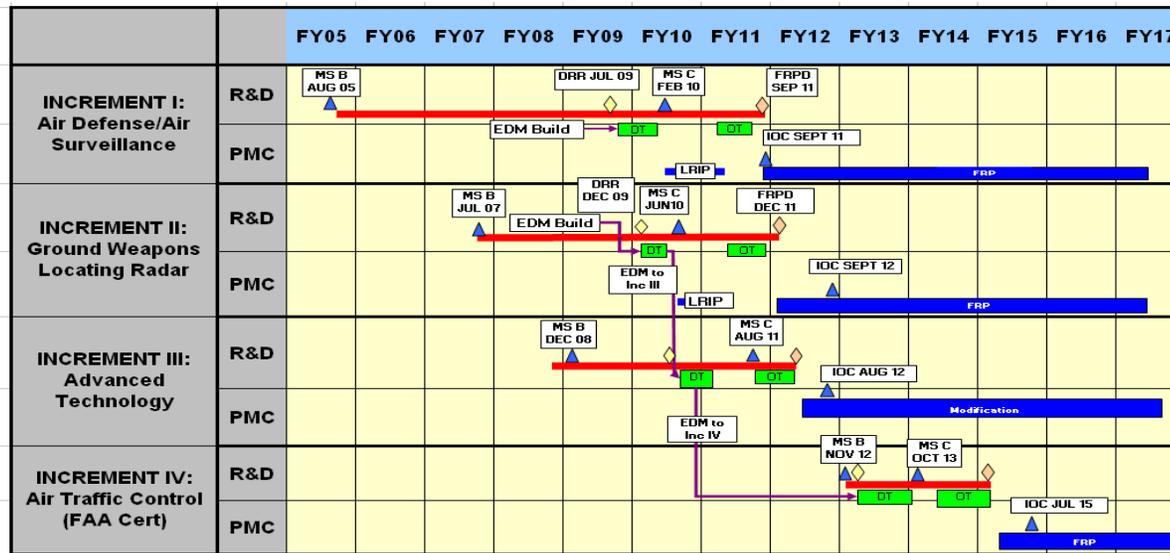
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Exhibit R-4-4a Project Schedule/Detail							DATE:							
APPROPRIATION/BUDGET ACTIVITY							PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 OPERATIONAL SYS DEV							0206313M Marine Corps Communication Systems				C3099 RADAR SYSTEMS			
							February 2008							
GWLR SCHEDULE DETAIL		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011				
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-----											
MARCENT EDL AAO Increase (6 Systems)				4th Q-----4th Q										
202K AAO Increase (16 Systems)							1st Q-----4th Q							
LCMR Procurement (46 Systems)				4th Q-----4th Q										
Radar Processor Procurement							1st Q-----1st Q							
IOC Upgrade ECPs						4th Q								
FOC Upgrade ECPs								3rd Q						

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2008
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



<u>Program Funding Summary</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, C3099, G/ATOR	37.201	96.383	85.997	51.581	59.679	12.616	5.835	3.300	352.592
(U) PMC, BLI#465000, G/ATOR	0.000	0.000	17.440	23.973	131.681	149.534	155.243	Cont	Cont

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2008
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 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			----4th Q					
Milestone B				4th Q				
System Development and Demonstration Phase				4th Q	-----1st Q FY12			
System Demonstration (DT)							1st-2ndQ	
Long Lead Items						4th Q		
Milestone C							3rd Q	
Increment III								
Concept & Technology Developmental Phase					1st Q	-----1st Q		
Milestone B						1st Q		
System Development and Demonstration Phase						1st Q	-----3rd Q FY11	
System Demonstration (DT)							3rd Q	
Milestone C							4th Q FY11	
Production Phase							4th Q FY11	
IOT&E							4Q FY12-2Q FY13	
Increment IV								
Milestone B							1stQFY13	
System Development and Demonstration Phase							1stQ FY13-1stQ FY14	
System Demonstration (DT)							2ndQ FY13-1stQ FY14	
Milestone C							1stQ FY14	
Production Phase							2ndQ FY15--	
IOT&E							2ndQ FY14-1stQ FY15	

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008						
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		15.782	10.433	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
<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-based 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) C9861– 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> <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 SINGARS 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>								

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication	C9999 CONGRESSIONAL ADDS			
<p>Battlefield Sensor Netting (currently showing in controls as Battlefield Target ID System) - Sensor netting will provide for increased timeliness and accuracy as well as greatly improved tactical continuity, with more consistent identification, and better engagement decision and prosecution. Access to forcewide composite tracks will allow the unit that is in the best position to intercept enemy aircraft and/or engage cruise and tactical ballistic missiles - and do so earlier. The data net is a wideband multi-point to multi-point meshnet which operates in the C band. It is registered with the Joint Spectrum Center. It can act as a highly jam resistant "mobile wireless internet" connecting joint forces over an area of thousands of square miles. It is designed with very low latency so that it can provide fire control data relay, such as from a Unmanned Aerial Vehicle (UAV) to a ground battery or a fighter plane. It is mounted on vehicles, masts, rotary wing (Cobra Gunship) and fixed wing aircraft both manned and unmanned.</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> <p>Performance Enhancements for Info Assurance and Info Systems: Supports the development and testing of Wide Area Network (WAN) Connection Assurance and Acceleration (WCAA) software.</p> <p>Counterintelligence and Human Intelligence Equipment Program (CIHEP): This add provides the Marine Corps CI/HUMINT companies with the capability to rapidly collect, process and disseminate intelligence information in support of military operations. CIHEP is comprised of modular groupings of Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS)/Non-Developmental Item (NDI) components that will enhance the Operating Force CI/HUMINT collection capabilities and improve interoperability within the Joint CI/HUMINT communities. The modularity allows personnel to perform myriad collection missions to support Commanders while only carrying the items needed to accomplish the specific tasking. This particular budget item responds to the certain forensic document/media exploitation and intelligence collection capabilities that have been added to the CIHEP Baseline as a result of Humint Exploitation Team employments in Counter Insurgency and Irregular Warfare against non-traditional enemies. The improvement, integration, design and evaluation of these technologies will improve Document and Media Exploitation (DOMEX) capabilities in the CIHEP Suite of equipment and result in a greater synergy between HUMINT and SIGINT in irregular warfare.</p>					
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:					
COST (\$ in Millions)			FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost			1.311	0.000	0.000
RDT&E Articles Qty					
USMC Battlefield Fusion - C9640 Development and Integration of Electronic Warfare Scenario Simulator (EWSS).					
COST (\$ in Millions)			FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost			2.671	0.000	0.000
RDT&E Articles Qty					
Ground/AirTask Oriented Radar G/ATOR C9860: Analytical, Acquisition, Admin Sup for Increment II					
COST (\$ in Millions)			FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost			1.000	0.000	0.000
RDT&E Articles Qty					
Composite Tracking Network C9861: Administrative Support on contract					

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008		
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)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.137	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)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		2.331	0.000	0.000
RDT&E Articles Qty				
Remote Tactical Collection and Transmission System C9865- Field User Evaluation of prototypes.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	2.384	0.000
RDT&E Articles Qty				
Battlefield Management System (BMS)/Battlefield Sensor Netting C9999 - Funds the development of increasing timeliness and accuracy to better engage enemy aircraft and missiles earlier.				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		3.157	0.000	0.000
RDT&E Articles Qty				
Battlefield Management System (BMS)/Advanced Situational Awareness System (AS2) C9A87 - Add supports Battlefield Management System (BMS)/Advanced Situational Awareness System				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.971	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)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		1.262	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)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.971	0.000	0.000
RDT&E Articles Qty				
Trident - Soldier Training C9A90 - This add provides funding for Trident - Soldier Training				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.971	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				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost		0.000	6.066	0.000
RDT&E Articles Qty				
(U) Performance Enhancements for Info Assurance and Info Systems: Development and testing of Wide Area Network (WAN) Connection Assurance and Acceleration (WCAA) software. Provides capability to support advanced software configurations of WCAA that improve network performance within existing connectivity as well as harden, test, certify, and improve tactical configurations of the existing underlying technology. Perform testing to identify selected information systems including NCES compatible collaboration services and measure anticipated performance improvements across wide-area networks with high latency and noise characteristics.				

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008							
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 2007	FY 2008	FY 2009					
Accomplishment/Effort Subtotal Cost		0.000	1.983	0.000					
RDT&E Articles Qty									
<p>CIHEP: This funding will support development, engineering and integration of key capabilities for document and media exploitation already resident in the System For Triaging Key Evidence with other software and hardware items already used to accomplish this mission in the Counter Intelligence Human Intelligence Equipment Program and the Radio Battalion Modernization Project. These upgrades and enhancements will be accomplished primarily through software enhancements and design of minor hardware configuration items to allow interoperability and integration with HUMINT and SIGINT systems.</p>									
(U) Total \$		15.782	10.433	0.000					
(U) PROJECT CHANGE SUMMARY:									
		FY 2007	FY 2008	FY 2009					
(U) FY 2008 President's Budget		16.189	0.000	0.000					
(U) Congressional Reductions									
(U) Congressional Rescissions									
(U) Congressional Increases			10.500						
(U) Reprogrammings									
(U) Reprogramming for Execution									
(U) SBIR/STTR Transfer		-0.407							
(U) Minor Affordability Adjustment			-0.067						
(U) FY 2009 President's Budget:		15.782	10.433	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.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</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# 474700 CIHEP	18.402	15.397	5.106	6.681	11.682	6.051	5.698	0.000	69.017
(U) Related RDT&E:									
0206313M, C2272 CIHEP	126	103	130	131	133	137	141	Cont	Cont
(U) D. ACQUISITION STRATEGY:									
<p>CIHEP: Funding will be placed on an existing USMC Contract with IDEAL CORPORATION managed through SPAWAR Systems Center Charleston (SSCC) for Software and hardware modifications to the System For Triaging Key Evidence (STRIKE).</p>									
(U) E. MAJOR PERFORMERS:									
<p>CIHEP: Ideal Corporation, Orlando FL; US Navy, SPAWAR Systems Center Charelston, Charelston SC</p>									