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EXHIBIT R-2, RDT&E Budget Item Justification				DATE:			
				February 2006			
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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	272.587	256.291	218.460	193.192	291.472	177.293	185.671
C2270 Expeditionary Indirect General Support Weapon Systems	16.707	18.131	15.095	17.187	19.982	18.440	18.089
C2272 Intelligence C2 Systems	21.450	26.619	26.672	22.059	19.010	22.234	23.434
C2273 Air Operations C2 Systems	108.891	86.065	47.341	34.693	20.968	23.008	26.375
C2274 Command & Control Wargare Systems	14.937	5.896	3.847	3.616	4.189	4.720	3.734
C2275 Joint Tactical Radio Systems	9.812	7.838	14.612	13.870	12.158	8.872	8.087
C2276 Communications Switching & Control Systems	3.331	6.127	4.494	4.298	3.499	0.841	0.880
C2277 System Engineering & Integration	8.088	9.537	8.919	9.237	9.417	9.741	9.967
*C2278 Air Defense Weapons Systems	20.247	16.001	6.423	10.940	6.374	5.490	5.071
* C2315 Training Devices/Simulators	4.173	8.806	0.0	0.0	0.0	0.0	0.0
*C2510 MAGTF CSSE & SE	17.278	17.453	35.311	20.874	26.271	17.047	25.696
C3098 Fire Support Systems	0.001	0.0	0.0	0.0	0.0	0.0	0.0
C3099 Radar Systems	29.761	26.818	55.746	56.418	169.604	66.900	64.338
C9276 Radar and Marine Corps Ship Maneuver	1.433	0.0	0.0	0.0	0.0	0.0	0.0
C9632 Advanced Ferrite Antenna (AFA)	2.040	0.0	0.0	0.0	0.0	0.0	0.0
C9633 Miniaturized Combat ID System	0.963	0.0	0.0	0.0	0.0	0.0	0.0
C9634 Marine Corps Wideband Communications	4.103	0.0	0.0	0.0	0.0	0.0	0.0
C9635 USMC Hitch Hiker	1.648	0.0	0.0	0.0	0.0	0.0	0.0
C9637 Marine Airborne Re-Trans Sys (MARTS)	3.280	0.0	0.0	0.0	0.0	0.0	0.0
C9638 Covert Sight for Urban Warfare	1.445	0.0	0.0	0.0	0.0	0.0	0.0
C9639 Improved Ground Based Transportable Radar	2.036	0.0	0.0	0.0	0.0	0.0	0.0
C9640 USMC Electronic Battlefield Fusion	0.963	0.0	0.0	0.0	0.0	0.0	0.0
C9999 FY-06 Congressional Adds	0.0	27.000	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT (PE) NAME AND NO. 0206313M Marine Corps Communications Systems	
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:			
<p>This program element provides funding to develop the command and control (C2) support and information infrastructures for the Fleet Marine Force and supporting establishment. Doctrinally, the C2 support system and the information infrastructure form two 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).</p> <p>Within this program element, subprojects have been grouped by C2 functional area for more efficient planning. Air defense weapons systems have been added to facilitate planning and a separate project is used for systems assigned to the supporting 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.</p> <p>This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.</p> <p>Note:</p> <p>* C2278 \$3.7M of FY06 Funds will be used to Forward Finance FY 07 for Gripstock</p> <p>** Funds for Project C2315 were realigned to PE 0206623M in FY07.</p> <p>***C2150 \$2.3572M of FY06 Funds will be used to Forward Finance FY07 for GCSS</p>			
B. PROGRAM CHANGE SUMMARY			
	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) FY 2006 President's Budget:	273.870	237.081	210.955
(U) Adjustments from the President's Budget:			
(U) Congressional/OSD Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases	9.844	27.000	
(U) Reprogrammings	-4.139		14.600
(U) SBIR/STTR Transfer	-5.754		
(U) Minor Affordability Adjustment	-1.234	-7.790	-7.095
(U) FY 2007 President's Budget:	272.587	256.291	218.460
CHANGE SUMMARY EXPLANATION:			
(U) Funding: See Above.			
(U) Schedule: Not Applicable.			
(U) Technical: Not Applicable.			

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems			PROJECT NUMBER AND NAME C2270 Expeditionary Indirect Fire General Support Weapon			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		16.707	18.131	15.095	17.187	19.982	18.440	18.089
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. 1. Advanced Field Artillery Tactical Data System (AFATDS) will consist of fire support command and control software fielded on Marine Corps common hardware. AFATDS will provide the MAGTF with an automated ability to rapidly integrate all supporting arm assets into maneuver plans. Provides digital fire support C2 automation to MAGTF Fire Support Coordination Centers, Fire Direction Centers, and Supporting Arms Coordination Centers (afloat). 2. MAGTF Software Baseline (MSBL)/ Command and Control Personal Computer (C2PC). MAGTF Software Baseline (MSBL) is an evolutionary software acquisition program that provides common software functionality to enhance and improve the capability and interoperability between multiple Marine Corps MAGTF C4ISR systems. The common software functionality provides the warfighter situational awareness and allows the Commander to successfully operate in a joint/combined environment. This common software functionality is accomplished through two separate but interrelated baselines software development efforts. The Common Operating Environment (COE) Unix baseline, which supports Unix based server systems and the Command and Control Personal Computer (C2PC) baseline which supports Windows based tactical workstations/systems used at the company and above levels. A "light" version of C2PC is being developed for tactical workstations/systems used at the platoon and below level. 3. Tactical Command Operations (TCO) will provide systems to the command post which support Maneuver C2. Maneuver C2 is the executive layer of decision support that pulls and fuses information from other functional areas. 4. The Data Automated Communications Terminal (DACT) is the Marine Corps' Blue Force Tracking Program of Record. It is the primary source of all tactical ground tracks below the Marine battalion, and is the primary provider of Position Location Information (PLI) into the Combat Operations Center (COC) and to Joint forces viewing the Common Operational Picture (COP). It is the foundational Marine data input and messaging device, building the COP from the platoon up to the battalion and regiment level. Furthermore, DACT is one tool in the Joint Combat ID toolbox that the Marine Commander uses to reduce the potential for fratricide. This initiative addresses shortcomings in the currently-fielded and planned DACT systems as identified during OEF / OIF. The Mounted DACT (M-DACT) (IOC 2nd Qtr FY03) consists of the Ruggedized Handheld Computer (RHC) with Command and Control Personal Computer (C2PC) software integrated with various tactical vehicle platforms and communications systems through the use of a Vehicle Modification (VM) Kit. It is mounted in vehicles from the battalion to the mechanized platoon (HMMWV, AAV, LAV, and Tanks). The acquisition objective of 1074 systems has been procured. The Dismounted DACT (D-DACT) IOC 2nd Qtr FY05 is a smaller, lighter handheld device having greater battery life, consisting of the Rugged Personal Digital Assistant (R-PDA) with Windows Command and Control CE (C2CE) software. The Dismounted DACT is intended for the dismounted user at the platoon level. 1108 systems of the acquisition objective of 1944 have been procured. Future DACT improved capabilities for replacement systems will meet stipulated Operational Requirements and OIF-derived Requirements to provide Blue Force Tracking and automated communications support for commanders in tactical operations. New capabilities will include Non Line of Sight (NLOS) and enhanced communication paths; improved Graphic User Interface (GUI) software and a larger screen, and Selective Availability Anti-Spoofing Module (SAASM) GPS integration. 5. Target Location Designation and Hand-Off System (TLDHS) - Provides fire support observers/controllers (OCs) with the ability to: observe their area of interest, quickly and accurately locate ground targets, and digitally request and coordinate target engagements by field artillery (FA), close air support (CAS), and naval surface fire support (NSFS). TLDHS will also provide the capability to designate targets for laser-guided munitions and laser spot trackers. TLDHS is comprised of and integrates two major subsystems: the Targeting Subsystem and the Target Hand-Off Subsystem. USMC MS III (Fielding)for TLDHS was 2Q04.								

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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 Communications Systems	C2270 Expeditionary Indirect Fire General Support Weapon	
(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.272	0.213	0.170
RDT&E Articles Qty			
TCO: Program management and engineering support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.244	0.204	0.164
RDT&E Articles Qty			
TCO: System testing and integration to develop additional functional capabilities.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.215	0.185	0.149
RDT&E Articles Qty			
TCO: Integrate software changes into new system and perform testing.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.253	0.283	0.228
RDT&E Articles Qty			
TCO: Testing and validations of advanced concepts and technologies.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	1.209	0.000
RDT&E Articles Qty			
C2PC: Software Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.200	1.026	1.026
RDT&E Articles Qty reprogrammed			
MAGTF C4I BASELINE/C2PC: Build, test, field and support COE compliant versions of MSBL and C2PC to fulfill C2 requirements in the six Warfighting functions focuses primarily on the integration, inclusion and incorporation of Fire Support, Maneuver and Intel capabilities.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.245	0.411	0.411
RDT&E Articles Qty			
MAGTF C4I BASELINE/C2PC: Engineering Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.520	0.961	0.961
RDT&E Articles Qty			
MAGTF C4I BASELINE/C2PC: Program Management Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	6.369	3.326	2.442
RDT&E Articles Qty			
MAGTF C4I BASELINE/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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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N/BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C2270 Expeditionary Indirect Fire General Support Weapon	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.200	0.000	0.000
RDT&E Articles Qty			
MAGTF C4I BASELINE/C2PC: Conduct C2PC Code Quality Analysis.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.100	0.000	0.000
RDT&E Articles Qty			
MAGTF C4I BASELINE/C2PC: Conduct C2PC Study Analysis.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.020	0.000	0.000
RDT&E Articles Qty			
MAGTF C4I BASELINE/C2PC: NMCI Cost			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.100	0.000	0.000
RDT&E Articles Qty			
MAGTF C4I BASELINE/C2PC: MCSC Program Office Travel			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.085	1.537	0.818
RDT&E Articles Qty			
AFATDS: Development of BUCS and LWTDS SW			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.500	0.000	0.000
RDT&E Articles Qty			
AFATDS: Field Integration Team (FIT) testing, software development, and FMF interoperability support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.506	0.244
RDT&E Articles Qty			
AFATDS Program management, engineering support and hardware development.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.032	0.000	0.036
RDT&E Articles Qty			
AFATDS: MCTSAA tested new SW and SOST.			

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C2270 Expeditionary Indirect Fire General Support Weapon	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.536	2.107	1.853
RDT&E Articles Qty			
AFATDS: Development of improved interoperability with USMC and Joint systems. Enhancement to EMT and C2PC interface.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.292	1.010	1.965
RDT&E Articles Qty			
AFATDS: Development of SWBII and future software. Increased functionality, interoperability, and ease of use. Better interface with USMC and USN systems.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.580	1.200
RDT&E Articles Qty			
DACT: DACT FMF test support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.050	0.050
RDT&E Articles Qty			
DACT: DACT Exercise Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.339	1.046	1.008
RDT&E Articles Qty			
DACT: DACT Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.215	0.650	0.000
RDT&E Articles Qty			
DACT: Protocol Implementation			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.607	0.600
RDT&E Articles Qty			
DACT: DACT Training Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.020	0.020	0.020
RDT&E Articles Qty			
DACT: DACT Technical Support Plan			

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COST (\$ in Millions)									
Accomplishment/Effort Subtotal Cost	FY 2005 0.000	FY 2006 0.450	FY 2007 0.000						
RDT&E Articles Qty									
DACT: Dismounted DACT Development									
COST (\$ in Millions)									
Accomplishment/Effort Subtotal Cost	FY 2005 2.950	FY 2006 0.000	FY 2007 0.000						
RDT&E Articles Qty									
TLDHS: Test Development and integration support.									
COST (\$ in Millions)									
Accomplishment/Effort Subtotal Cost	FY 2005 0.000	FY 2006 1.750	FY 2007 1.750						
RDT&E Articles Qty									
TLDHS: Test Development and integration support.									
(U) Total \$									
	<u>16.707</u>	<u>18.131</u>	<u>15.095</u>						
(U) PROJECT CHANGE SUMMARY:									
	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>						
(U) FY 2006 President's Budget:	10.586	18.407	18.523						
(U) Adjustments from the President's Budget:									
(U) Congressional Program Reductions									
(U) Congressional/OSD Program Reductions									
(U) Congressional Rescissions									
(U) Congressional Increases									
(U) Reprogrammings	6.229								
(U) SBIR/STTR Transfer	-0.103								
(U) Minor Affordability Adjustment	-0.005	-0.276	-3.428						
(U) FY 2007 President's Budget:	16.707	18.131	15.095						
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See Above.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
PMC BLI# 463100 TCO	3.145	0.184	0.413	0.407	0.208	0.218	0.229	Cont	Cont
PMC BLI# 463100 AFATDS	0.315	3.968	4.620	5.238	0.856	3.394	3.464	Cont	Cont
PMC BLI# 463100 DACT	2.316	6.753	7.851	2.036	7.017	5.104	3.128	Cont	Cont
PMC BLI#463100 TLDHS	0.000	1.429	1.520	0.914	1.016	1.016	2.034	Cont	Cont
PMC BLI# 463100 GCCS	3.641	4.004	4.405	4.618	4.528	4.875	5.006	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.									

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems	PROJECT NUMBER AND NAME C2270 Expeditionary Indirect Fire General Support Weapon
(U) D. ACQUISITION STRATEGY:		
(U) TCO: Contracting is via General Services Administration schedules with various vendors and is for software maintenance and COTS evaluation and integration. Performance base reviews are conducted quarterly by the PMO.		
(U) MSBL: Funds applied to Northrop Grumman Information Technology (NGIT), San Diego, CA for development of MSBL client in MS Windows environment and development of client for foot mobile Marines in Windows CEOSS environment. Funds applied to Titan Corporation, Dumfries, VA and NGIT, Stafford, VA under the CEOSS contract for program management and engineering support. Funds applied to MCR Federal for C2PC Life Cycle Cost Estimate development. Funds applied to SPAWAR, Charleston, SC for build, test, and support COE compliant versions of GCC-J in support of six Warfighting functions.		
(U) AFATDS: AFATDS is a Cost Plus Award Fee contract through Army CECOM, Ft. Monmouth, N. J. 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 (V6.3.2 and V7).		
(U) DACT: The Program develops software and hardware for two operational domains. The Mounted DACT (M-DACT) (IOC 2nd Qtr FY03) consists of the Ruggedized Handheld Computer (RHC) with Command and Control Personal Computer (C2PC) software integrated with various tactical vehicle platforms and communications systems through the use of a Vehicle Modification (VM) Kit. It is mounted in vehicles from the battalion to the mechanized platoon (HMMWV, AAV, LAV, and Tanks). The acquisition objective of 1074 systems has been procured. The Dismounted DACT (D-DACT) (IOC 2nd Qtr FY05) is a smaller, lighter handheld device having greater battery life, consisting of the Rugged Personal Digital Assistant (R-PDA) with Windows Command and Control CE (C2CE) software. The Dismounted DACT is intended for the dismounted user at the platoon level. 1108 systems of the acquisition objective of 1944 have been procured.		
(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.		
E. Major Performers:		
TACTICAL COMBAT OPERATIONS (TCO)		
FY 05 SPAWAR, CHARLESTON, S.C. Provide funds to EMA, INC, Charleston, S.C. for Testing and Validation of new workstation concept, integrate software changes into new system, and perform testing.		
FY 06 SPAWAR, CHARLESTON, SC Provide funds to EMA, INC, Charleston, SC for testing of new workstation concept, integration of new software, and final acceptance testing. Nov 05.		
FY 07 SPAWAR, CHARLESTON, SC Provide funds to EMA, INC, Charleston, SC for testing of new server concept, integration of new software, and final acceptance testing.		
MAGTF SOFTWARE BASELINE (MSBL)		
FY 05 NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), San Diego, CA. Software development C2PC and C2CE (C2PC Light). contract award date: Feb 05 SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. contract award date: JUN 05 Ocean Systems Engineering Corporation (OSEC), Stafford, VA Training Development NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), Stafford, VA. Engineering support. contract award date: APRIL 05. TITAN CORPORATION, Stafford, VA. Program Management Support. contract award date: Oct 04 MCTSSA, software testing Naval Post Graduate School, C2PC Study Analysis. Estimated contract award date: Feb 05		
FY 06 NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), San Diego, CA. Software development C2PC and C2CE (C2PC Light). Estimated contract award date: Dec 05 SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. Estimated contract award date: Nov 05 NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), Stafford, VA. Engineering support. Estimated contract award date: Oct 05 TITAN CORPORATION, Stafford, VA. Program Management Support. Estimated contract award date: Oct 05		
FY 07 NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), San Diego, CA. Software development C2PC and C2CE (C2PC Light). Estimated contract award date: Dec 06 SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. Estimated contract award date: Dec 06 NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), Stafford, VA. Engineering support. Estimated contract award date: Oct 06 TITAN CORPORATION, Stafford, VA. Program Management Support. Estimated contract award date: Oct 06		

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C2270 Expeditionary Indirect Fire General Support Weapon
ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM (AFATDS)		
FY05 Ocean Systems Engineering Corporation (OSEC), Stafford, VA Training Development NORTHROP GRUMMAN MISSION SYSTEMS (NGMS), Stafford, VA. Engineering support. MCOTEA, Quantico VA. Test software. MCTSSA, Software testing. Award Nov 05		
FY 06 RAYTHEON, Fort Wayne IN. Develop and test software. Oct 06. MCOTEA, Quantico VA. Test software. Award Dec 06. MCTSSA, Software testing. Award Oct 06.		
FY 07 RAYTHEON, Fort Wayne IN. Develop and test software. Nov 07. MCOTEA, Quantico VA. Test V6.3.2 software. Award Nov 07. MCTSSA, Software testing. Award Nov 07.		
DATA AUTOMATED COMMERCIAL TERMINAL (DACT)		
FY 05 NORTHROP GRUMMAN, San Diego, CA. Software Development Ocean Systems Engineering Corporation (OSEC), Stafford, VA Training Development Titan Corporation, Staffort, VA Program Support NORTHROP GRUMMAN Mission Systems (NGMS), Stafford, VA. Program Support.		
FY 06 NORTHROP GRUMMAN, San Diego, CA. Software Development Ocean Systems Engineering Corporation (OSEC), Stafford, VA Training Development Raytheon, Modem Development Titan Corporation, Staffort, VA Program Support NORTHROP GRUMMAN Mission Systems (NGMS), Stafford, VA. Program Support.		
FY 07 NORTHROP GRUMMAN, San Diego, CA. Software Development Ocean Systems Engineering Corporation (OSEC), Stafford, VA Training Development Titan Corporation, Staffort, VA Program Support NORTHROP GRUMMAN Mission Systems (NGMS), Stafford, VA. Program Support.		
TARGET LOCATION DESIGNATION AND HAND-OFF SYSTEM (TLDHS)		
FY05 N/A		
FY06 TBD		
FY07 TBD		

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Exhibit R-3 Cost Analysis				DATE:		February 2006						
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT		PROJECT NUMBER AND NAME								
RDT&E, N /BA-7 Operational Sys Dev		020631M Marine Corps Communications Sys		C2270 Expeditionary Indirect Fire General Support Weapon System								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TCO	WR/RCP	SPAWAR. Charleston, SC	1.328	0.498	11/04	0.417	11/05	0.334	11/06	Cont	Cont	
C2PC	RCP	Northrop Grumman, San Diego, CA	0.000	0.000		1.209	02/06	0.000	01/00	Cont	Cont	
MAGTF C4I BASELINE	RCP	SPAWAR, Charleston, SC	6.060	1.400	11/04	1.026	02/06	1.026	11/06	Cont	Cont	
MAGTF C4I BASELINE	RCP	Northrop Grumman, San Diego, CA	26.201	2.980	02/05	3.326	02/06	2.442	10/06	Cont	Cont	
MAGTF C4I BASELINE	RCP	Ocean Sys Eng Corp (OSEC)Stafford	1.364	0.245	10/04	0.411	10/05	0.411	10/06	Cont	Cont	
MAGTF C4I BASELINE	RCP	Titan Corporation, Stafford, VA	2.170	0.538	10/04	0.614	10/05	0.614	10/06	Cont	Cont	
MAGTF C4I BASELINE	WR	MCSC, Quantico, VA	0.180	3.389	10/04					Cont	Cont	
MAGTF C4I BASELINE	RCP	Carnegie Melon University	0.448	0.200	10/04					0.000	0.648	
MAGTF C4I BASELINE	RCP	Naval Post Graduate School	0.100	0.000	02/05					0.000	0.100	
MAGTF C4I BASELINE	WR	NMCI	0.020	0.020	10/04					0.000	0.040	
MAGTF C4I BASELINE	RCP	Knowldege Connection, Inc Stafford, VA				0.210	10/05	0.210	10/06	Cont	Cont	
MAGTF C4I BASELINE	WR	Marine Corps Tactical Systems Support Activity (MCTSSA)				0.132	02/06	0.132	10/06	Cont	Cont	
MAGTF C4I BASELINE	WR	Marine Corps Systems Command PG-10				0.005	02/06	0.005	10/06	Cont	Cont	
AFATDS	WR	SPAWAR. Charleston, SC		0.015	10/05							
AFATDS	WR	MCSC (MCTSSA), Quantico, VA	0.280	0.000		0.034	11/05	0.036	11/06	Cont	Cont	
AFATDS	CPFF/MIPR	CECOM, Ft. Monmouth,NJ	2.915	1.865	11/04	5.126	11/05	4.880	11/06	Cont	Cont	
DACT	TM	Raytheon, Fort Wayne, IN	3.199	0.000		0.650	11/05			Cont	Cont	
DACT	FFP	Northrop Grumman, San Diego CA	1.570	0.450	11/04	0.450	11/05			Cont	Cont	
DACT	WR	FMF, MCB Camp Pendleton/MCTSSA	0.320	0.000		0.650	11/05	1.270	11/06	Cont	Cont	
DACT	FFP	OSEC, Stafford, VA		0.600	10/04	0.607	11/05	0.600	11/06	Cont	Cont	
DACT	FFP	SPAWAR. Charleston, SC		0.090								
DACT	UNK	TBD				1.046	12/05	1.008	11/06	Cont	Cont	
AFATDS	RCP	Titan Corporation, Stafford, VA		0.058	10/04							
AFATDS	RCP	Ocean Sys Eng Corp (OSEC)Stafford		0.441	10/04							
TLDHS	RCP	MCSC, Quantico, VA		1.596	10/04							
TLDHS	MP	SPAWAR. Charleston, SC		0.041	10/04							
TLDHS	SS/IDIQ	TBD				1.000	01/06	1.000	01/07	Cont	Cont	

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Exhibit R-3 Cost Analysis					DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communications Sys			C2270 Expeditionary Indirect Fire General Support Weapon System						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TLDHS	RCP	NSWC Crane	5.069	0.750	04/05	0.070	12/05	0.150	12/06	0.000	6.039	
Subtotal Support				0.750		0.070		0.150		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TCO	WR	MCTSSA, Camp PndltN, CA	0.261	0.000	12/04	0.180	12/05	0.180	12/06	Cont	Cont	
TCO	WR/RCP	SPAWAR, Charleston, SC	0.000	0.468	11/04	0.288	11/05	0.197	11/06	Cont	Cont	
TLDHS	WRR	NAWC, China Lake, CA	0.144	0.000		0.150	12/05	0.070	12/06	0.000	0.364	
TLDHS	MIPR	JITC, Ft. Huachuca	0.000	0.075	10/04	0.030	10/05	0.030	10/06	0.000	0.135	
TLDHS	WRR	NSWC Dahlgren	0.638	0.138	03/05	0.500	12/05	0.500	12/06	0.000	1.776	
TLDHS	WR	MCOTEA		0.350	11/04							
AFATDS	WR	MCOTEA		0.066	11/04							
DACT	WR	MCOTEA		0.434	11/04							
Subtotal T&E				1.531		1.148		0.977		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal Management				0.000		0.000		0.000		0.000	0.000	
Remarks:												
Total Cost				16.707		18.131		15.095		Cont	Cont	

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EXHIBIT R-4/4a, Schedule Profile/Detail

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

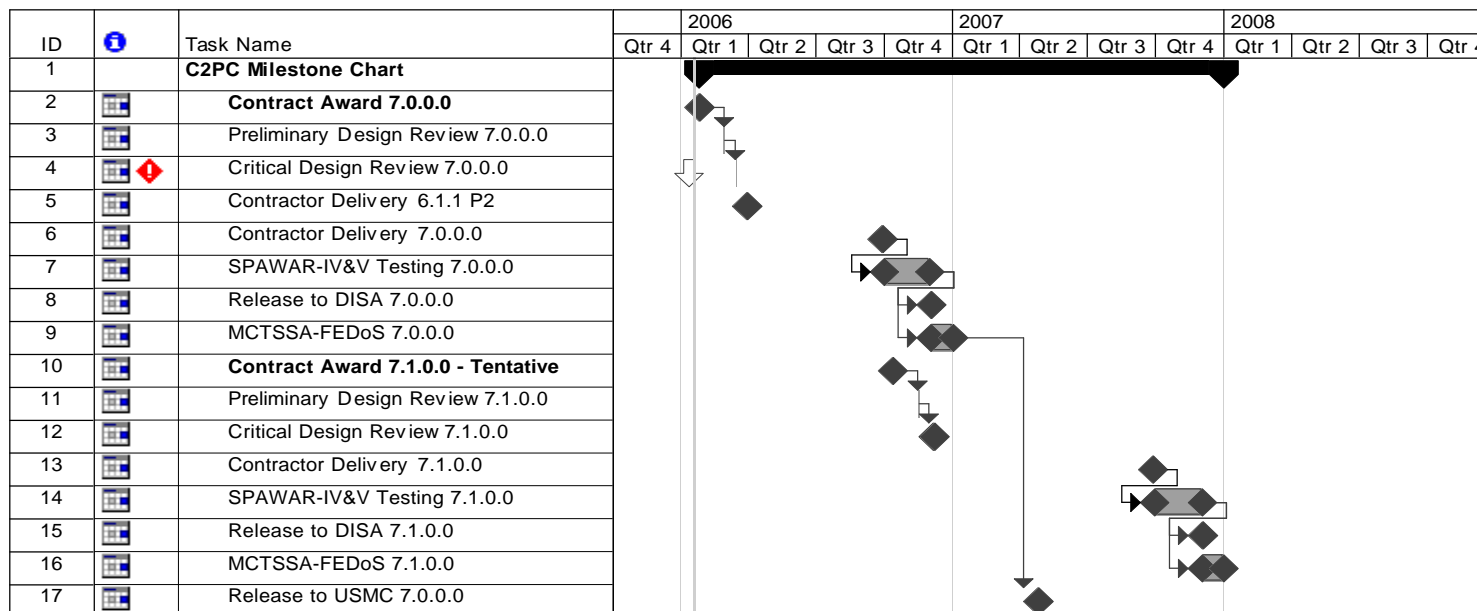
PROJECT NUMBER AND NAME

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

0206313M Marine Corps Communications Sys

**C2270 Expeditionary Indirect Fire General Support
Weapon System**

MSBL



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N MSBL/C2PC

<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
8.754	6.933	4.840	6.165	6.363	6.521	6.617	Cont	Cont

[illegible]

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems			PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	21.450	26.619	26.672	22.059	19.010	22.234	23.434
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 provide 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 .

Coastal Battlefield Reconnaissance and Analysis (COBRA) system is a passive multispectral sensor system capable of operating in a Manned Aircraft and an Unmanned Aerial Vehicle (UAV). Imagery recorded on the UAV or disseminated via data link is analyzed by the COBRA processing station. COBRA algorithm processing provides near real-time automatic minefield detection with Differential Global Positioning System (DGPS) location accuracy.

Joint System Imagery Processing System Tactical Exploitation Group (JSIPS-TEG) - The TEG System is the only tactical imagery exploitation system in the USMC and is one of the four systems comprising the Distributed Common Ground\Surface System-Marine Corp (DCGS-MC). It is made up of two modular and scaleable echelon-tailored configurations: the TEG-Main (TEG-M) and the TEG Remote Workstation (TEG-RWS). The TEG provides a mobile, tailorable, tactically deployable capability to receive and exploit imagery, and disseminate reports and secondary imagery products for use in all aspects of operational planning. 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, 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.

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems
<p>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 SIGINT and 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.</p> <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. 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.</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 provid 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 Commerical-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 sytems. The ISR program Team also trains Marines to maximize new systems and capabilities.</p>		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems	
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 configuraion, that provides dedicated tactical communications capacity at the TS/SCI and Secret Collateral levels to USMC intelligence units. TROJAN SPIRIT terminals provide connectivity into JWICS, NSANET and SIPRNET via DCGSI - Distributed Common Ground/Surface System-Marine Corps, 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. The Marine Corps will conduct DIB integration reseach and development to meet a congressionally mandated implementation deadline.			
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.030	0.028	0.035
RDT&E Articles Qty			
CIHEP: Engineering, Integration and Technical support for technical refresh and update of program hardware/software upgrades.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.077	0.091	0.091
RDT&E Articles Qty			
CIHEP: Program Management Support for the technical refresh and update of program hardware/software upgrades.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.040	0.156	0.158
RDT&E Articles Qty			
GCCS-I3: Logistic Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.030	0.000	0.000
RDT&E Articles Qty			
GCCS-I3: Program Documentation			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.580	1.097	1.112
RDT&E Articles Qty			
GCCS-I3: Software Engineering Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.417	0.314	0.318
RDT&E Articles Qty			
GCCS-I3: Contractual Support - Infrastructure			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.049	0.000	0.000
RDT&E Articles Qty			
GCCS-I3: Engineering/Acq Logistics Support			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.064	0.000	0.000
RDT&E Articles Qty			
GCCS-I3: Program Testing			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.500	0.574	0.583
RDT&E Articles Qty			
IAS MOD KIT: Management, Engineering and Acquisition Logistic Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.425	0.460	0.455
RDT&E Articles Qty			
IAS MOD KIT: Development of software solutions for system applications and migration over to Win XP OS.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.860	1.040	1.000
RDT&E Articles Qty			
IBR: Engineering and technical service support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.069	0.097	0.087
RDT&E Articles Qty			
IBR: Contract and Program Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.533	0.150	0.150
RDT&E Articles Qty			
ISR: Program Management and Technical Support for the ISR Program.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.600	0.550
RDT&E Articles Qty			
ISR: Engineering Support for delivery of new technology initiatives to the Operating Forces.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.266	0.236
RDT&E Articles Qty			
ISR: System Engineering support for the ISR Testing and Training Center.			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.261	0.186	0.259
RDT&E Articles Qty			
JSTARS: Engineering and technical support for development and integration of client software that will reside on existing MAGTF system and utilize JSTARS data.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.186	0.504
RDT&E Articles Qty			
JSTARS: Future MTI capability into JSTARS ground elements.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.108	0.000
RDT&E Articles Qty			
JSTARS: Common Data Link Capability.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.389	0.000	0.000
RDT&E Articles Qty			
JSTARS: Future MTI Sensor capability.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.034	0.073	0.000
RDT&E Articles Qty			
JSTARS: IPv6 integration research.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.447	0.445	0.710
RDT&E Articles Qty			
JSIPS-TEG: Development and integration of enhanced TEG/TEG-RWS functionality to include SCI capability.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.225	0.300	0.371
RDT&E Articles Qty			
JSIPS-TEG: Development and integration of required upgrades/interfaces to accommodate emerging airborne imagery sensor.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.157	0.090	0.080
RDT&E Articles Qty			
JSIPS-TEG: Develop, maintain and improve Precision Targeting software.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.086	0.130
RDT&E Articles Qty			
JSIPS-TEG: Development of MTI/MTIX interfaces to include potential merger of current JSTARS/CGS capabilities			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.198	0.104	0.210
RDT&E Articles Qty			
JSIPS-TEG: Development and integration of video capture and exploitation capability.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.081	0.138	0.183
RDT&E Articles Qty			
JSIPS-TEG: Development and integration of mandated DCGS/DIB interfaces and communication architectures.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.094
RDT&E Articles Qty			
JSIPS-TEG: Development of man-portable and reduced form-factor Comon Data Link (CDL) capability.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.738	0.492	0.563
RDT&E Articles Qty			
JSIPS-TEG: Engineering/technical management and Infrastructure/Team IMINT shared costs.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.084	0.100
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.160	0.206	0.210
RDT&E Articles Qty			
MSIDS: Program Management and technical support for product development of program hardware and software refresh.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.061	0.041	0.041
RDT&E Articles Qty			
MSIDS: Program Management and technical support for Technical and Evaluation of program refresh.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.856	0.912	1.511
RDT&E Articles Qty			
TCAC: Software development keeping TCAC with COE 4.X and future releases.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	3.191	3.182	2.876
RDT&E Articles Qty			
TENCAP: Program support and management; evaluate national intelligence data systems for MAGTF applicability.			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.290	0.617	1.032
RDT&E Articles Qty			
TENCAP: Technical assessments of emerging national data dissemination capabilities.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.015	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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.061	0.000	0.100
RDT&E Articles Qty			
TENCAP: Evaluate the utility of emerging exploitation, automated and manual target recognition and detection tools.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.319	0.354	0.357
RDT&E Articles Qty			
TPC: Contractor Support for Integration and Re-engineering Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.661	0.000	1.500
RDT&E Articles Qty			
TPCS-MPC: EDM Design.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.500	0.000	0.500
RDT&E Articles Qty			
TPCS-MPC: System development.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.027	0.057	0.049
RDT&E Articles Qty			
TPCS-MPC: Training development and test support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.200	1.100
RDT&E Articles Qty			
TPCS-MPC: Program support and management.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.950	0.000	0.000
RDT&E Articles Qty			
TPCS-MPC: Contractor advisory assistance service.			

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COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.348	0.350	0.350
RDT&E Articles Qty			
TPCS-MPC: Operational Test and Evaluation (OT&E).			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.065	0.175	0.000
RDT&E Articles Qty			
TRSS-PIP: Logistic and Admin support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.702	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 vewr 3.1 field verification/version 4.0.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.236	0.900	0.000
RDT&E Articles Qty			
TRSS-PIP: Engineering support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.901	0.000	1.445
RDT&E Articles Qty			
TRSS-PIP: Development of Unattended Ground Miniaturized Sensors (UGMS) and AADS electronic components.			
	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.705
RDT&E Articles Qty			
TRSS-PIP: Air Certification of Advanced Air Delivered Sensor (AADS) store.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.918	1.000	1.300
RDT&E Articles Qty			
TRSS-PIP: Software Development of AADS and UGMS Monitoring System.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.716	1.250
RDT&E Articles Qty			
TRSS-PIP: Development of Increment IV and software efforts			

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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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.500	0.000
RDT&E Articles Qty			
TRSS-PIP: Support IOT&E and Increment II efforts.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.420	0.422
RDT&E Articles Qty			
TROJAN SPIRIT: Development of P3I upgrades.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.314	1.480
RDT&E Articles Qty			
DCGS-MC - USMC DCGS Integrated Backbone (DIB).			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.315	1.480
RDT&E Articles Qty			
DCGS-MC - Application Interface (API) and Application Process Development.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.583	0.867
RDT&E Articles Qty			
DCGS-MC - Engineering and Technical Services.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.497	0.118
RDT&E Articles Qty			
DCGS-MC - Studies, analysis and evaluation.			
(U) Total \$	<u>21.450</u>	<u>26.619</u>	<u>26.672</u>

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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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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) C. OTHER PROGRAM FUNDING SUMMARY:										
Line Item No. & Name		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	tal Cost
PMC BLI 471400	TRSS PIP TRSS-PIP	8.459	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.459
PMC BLI 474700	Intell Support Eq TRSS-PIP	0.000	9.289	2.666	5.886	10.402	7.699	13.000	Cont	Cont
PMC BLI 474700	Intell Support Eq CIHEP	1.437	1.426	1.601	1.761	1.862	1.935	1.970	Cont	Cont
PMC BLI 474700	Intell Support Eq DCGSI	0.000	1.303	3.240	0.529	0.612	6.203	0.574	Cont	Cont
PMC BLI 474700	Intell Support Eq JSIPS	0.982	3.401	0.267	0.000	1.283	1.813	0.299	0.000	8.045
PMC BLI 474700	Intell Support Eq TPCS	2.637	7.641	4.660	3.149	0.301	0.000	0.000	0.000	18.388
PMC BLI 474700	Intell Support Eq MSIDS	1.338	1.614	1.697	1.762	1.718	1.757	1.794	Cont	Cont
PMC BLI 474700	Intell Support Eq IBR	2.024	1.320	0.401	0.420	0.422	0.429	0.434	Cont	Cont
PMC BLI 474700	Intell Support Eq TPC	1.268	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.268
PMC BLI 474700	Intell Support Eq RREP	1.940	3.992	0.034	1.019	5.191	0.100	1.294	Cont	Cont
PMC BLI 474700	Intell Support Eq TSCM	0.000	1.159	0.000	1.323	0.000	1.448	0.000	Cont	Cont
PMC BLI 474900	MOD KITS Intell IAS MOD Kit	2.107	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.107
PMC BLI 465200	Mod Kits IAS MOD Kit	0.000	3.635	5.253	2.618	1.469	2.706	1.720	Cont	Cont
PMC BLI 474900	Mod Kits Intell TCAC	1.491	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.491
PMC BLI 465200	Mod Kit TCAC	0.000	0.933	3.904	0.945	1.127	0.000	0.772	Cont	Cont
PMC BLI 474900	Mod Kits Intell JSTARS	3.408	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.408
PMC BLI 465200	Mod Kit JSTARS	0.000	4.181	0.024	3.728	1.624	1.487	2.498	Cont	Cont
PMC BLI 474900	Mod Kits Intell TERPES	0.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.82
PMC BLI 465200	Mod Kit TERPES	0.000	2.982	0.000	3.182	0.000	0.000	0.000	0.000	6.164
PMC BLI 474900	Mod Kits Intell ISR	1.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.011
PMC BLI 465200	Mod Kit ISR	0.000	3.980	3.645	1.466	2.424	2.022	3.591	Cont	Cont
PMC BLI 463300	Radio Systems TROJAN LITE	0.962	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.962
PMC BLI 474700	Intell Support Eq TROJAN SPIRIT	0.000	7.300	3.094	4.011	0.656	0.108	0.113	Cont	Cont
PMC BLI 474700	Intell Support Eq JWICS	0.000	0.723	0.781	0.801	0.822	0.845	0.867	0.867	5.706
PMC BLI 474700	Intell Support Eq TVCS	5.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.7
PMC BLI 474700	Intell Support Eq USMC Terrain Analysis (TAP)	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.996

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(U) Related RDT&E:

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

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

(U) PE 0305885G (Tactical Cryptologic Program)

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

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

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

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

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

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

(U) ACQUISITION STRATEGY JSIPS TEG: The TEG Program Office leverages the advantages of its multi-service common software baseline and inherent Joint service interoperability. Development 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. The MTC-operated Integrated Team Solutions Facility (ITSFAC) provides facilities to conduct integration, interoperability, and security certification and accreditation testing of USMC intelligence systems, system training, and program management support.

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

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

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

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

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

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems	
<p>(U) ACQUISITION STRATEGY GCCS-I3: This program promotes and ensures interoperability among USMC Intelligence Systems. Engineering and technical support is provided to PM Intel systems integration efforts for incorporation of the COE and GCCS-I3 software baseline. An Intelligence Integration Facility has been established at the Integrated Team Solution Facility. As such, this facility will be used as the hub for the entire integration effort of the GCCS-I3 initiative. The program is funded for five years beginning in FY02 and, as it is not a procurement effort, there are no life cycle or acquisition phases for which the Marine Corps is responsible.</p> <p>(U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.</p> <p>(U) ACQUISITION STRATEGY IBR: In house contracts will be used to conduct engineering studies and test and evaluation activities associated with the Marine Corps implementation of the Integrated Broadcast Service, Common Message Format, ENTR integration and test and evaluation.</p> <p>(U) ACQUISITION STRATEGY TPC: The TPC program will reach Full Operational Capability in FY06 with the fielding of TPC to the Marine Corp Intelligence Activity. The TPC will refresh and upgrade the existing TPC equipment as technology advances. As new technology emerges, the current fielded systems will need incremental hardware and software refreshes to sustain operational requirements and to meet the ORD requirement of compliance with the NGA US Imagery and Geospatial Information System. The TPC program uses existing Government contracts for hardware/software development and integration. Full-time contractor support is provided through the Commercial Enterprise Omnibus Support Services (CEOss) 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 DCGSI: 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>			

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(U) E. MAJOR PERFORMERS:			
MANPACK SIDS (MP SIDS)			
FY 05 Integrity Data Inc (IDI), Colorado Springs, Colorado. Provide funds for integration and sustainment support. Northrop Grumman Information Technology (NGIT), Stafford, VA Provide funds for engineering and program management support. Navy Systems Management Activity (MTC, Stafford, VA). Provide funds for engineering and program management support.			
FY 06 Integrity Data Inc (IDI), Colorado Springs, Colorado. Continue to provide funds for integration and sustainment support. Northrop Grumman Information Technology (NGIT), Stafford, VA Continue to provide funds for engineering and program management support. Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for engineering and program management support.			
FY 07 Integrity Data Inc (IDI), Colorado Springs, Colorado. Continue to provide funds for integration and sustainment support. Northrop Grumman Information Technology (NGIT), Stafford, VA Continue to provide funds for engineering and program management support. Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for engineering and program management support.			
INTELLIGENCE BROADCAST RECEIVER (IBR)			
FY 05 COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA. Provide funds to MDA Technologies for IBS Common Message format implementation assessment and Engineering and technical management support. SPAWAR, Charleston, SC. Provide funds for integration, engineering, program management and contractual support.			
FY 06 COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA Continue to provide funds to MDA Technologies for IBS Common Message format implementation assessment, IBR to JTRS transition assessment and engineering and technical management support.			
FY 07 COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA Continue to provide funds to MDA Technologies for IBS Common Message format implementation assessment and Engineering and technical management support.			
INTELLIGENCE ANALYSIS SYSTEM (IAS)			
FY05 SPAWAR, CHARLESTON, S.C. Provide funds for development, upgrades, integration, research and analysis of hardware for system refresh. Navy Systems Management Activity (MTC, Stafford, VA). Continue to provide funds for Integration and hardware upgrade study.			
FY06 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.			
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.			
INTELLIGENCE SYSTEM READINESS (ISR)			
FY 05 NAVY SYSTEMS MANAGEMENT ACTIVITY, (MTC Services Corporation, Stafford, VA) - Provide funding for engineering, testing, evaluation and training support. Naval Operation Other Than War Technology Center (NOOTW-TC), Dahlgren, VA - Provide funding for new technology initiatives.			
FY 06 NAVY SYSTEMS MANAGEMENT ACTIVITY, (MTC Services Corporation, Stafford, VA) - Continue to provides funding for engineering, testing, evaluation and training support.			
FY 07 NAVY SYSTEMS MANAGEMENT ACTIVITY, (MTC Services Corporation, Stafford, VA) - Continue to provides funding for engineering, testing, evaluation and training support.			

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TEAM PORTABLE COLLECTION SYSTEM - MULTI-PLATFORM CAPABLE (TPCS-MPC)		
FY05 NSMA (MTC), Stafford, VA, Provide funds for program management and engineering support services MCSC, Quantico, VA, Provide payback funds to PG-10		
FY06 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		
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		
GLOBAL COMMAND AND CONTROL SYSTEM INTEGRATED IMAGERY AND INTELLIGENCE (GCCS I3)		
FY 05 MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services. Austin Information System (AIS), Austin, TX. Provide funds for System Integration & inoperability with US Army Intelligence System (ASAS), ASAS-Lite, etc. SPAWAR, CHARLESTON, SC. Provide Software Engineering support to include research, design, documentation and testing.		
FY 06 MTC Services Corporation (MTC) Stafford, VA. Continue to provide funds for Engineering and Program support services. Austin Information System (AIS), Austin, TX. Continue to provide funds for System Integration & inoperability with US Army Intelligence System (ASAS), ASAS-Lite, etc. SPAWAR, CHARLESTON, SC. Continue development, upgrades, integration, research and analysis for system refresh.		
FY 07 MTC Services Corporation (MTC) Stafford, VA. Continue to provide funds for Engineering and Program support services. Austin Information System (AIS), Austin, TX. Continue to provide funds for System Integration & inoperability with US Army Intelligence System (ASAS), ASAS-Lite, etc. SPAWAR, Charleston, SC. Continue development, upgrades, integration, research and analysis for system refresh.		
TOPOGRAPHIC PRODUCTION CAPABILITY (TPC)		
FY 05 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC, or integration and re-engineering support. Dec 04		
FY 06 MARCORSYSCOM, (MCSC), Quantico, VA Continue to provide funds to TBD for continues integration and re-engineering support in support of moderinzation and technology refresh. Dec 05		
FY 07 MARCORSYSCOM, (MCSC), Quantico, VA Continue to provide funds to TBD for continues integration and re-engineering support in support of moderinzation and technology refresh. Dec 06		
JOINT SURVEILLANCE TARGET ATTACK RADAR (JSTARS)		
FY 05 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. MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services.		
FY 06 SPAWAR, Charleston, S.C. Continue to provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet Protocol Version 6 (IPv6) research and development.		
FY 07 SPAWAR, Charleston, S.C. Continue to provide funds for client software connectivity solution, future MTI, CDL, MTI sensor capabilities and Internet Protocol Version 6 (IPv6) research and development.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems
JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG)		
FY05 SPAWAR, Charleston, SC. Provide funds for integration, engineering, program management and contractual support. ARMY SPACE PROGRAM OFFICE, Washington, DC. Classified contract. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Provide funds for engineering & technical management support. MARCORSSYSCOM, (MCSC), Quantico, VA (CEOSS) Provide funds for Program and technical support.		
FY06 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. MARCORSSYSCOM, (MCSC), Quantico, VA (CEOSS) Continue to provide funds for Program and technical support.		
FY07 SPAWAR, Charleston, SC. Continue to provide funds for integration, engineering, program management & contractual support. ARMY SPACE PROGRAM OFFICE, Washington, DC. Classified contract. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), (MTC, Stafford, VA), Continue to provide funds for engineering & technical management support.		
TACTICAL CONTROL AND ANALYSIS CENTER (TCAC)		
FY 05 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems.		
FY 06 TITAN, Fairfax, VA. Continue to provide funds to develop additional analytical tools, integrate software changes and migrate software baseline and beyond. Integrate new hardware/software into existing systems.		
FY 07 TITAN, Fairfax, VA. Continue to provide funds to develop additional analytical tools, integrate software changes and migrate software baseline and beyond. Integrate new hardware/software into existing systems.		
TACTICAL REMOTE SENSOR SYSTEM (TRSS)		
FY05 MARCORSSYSCOM, Quantico, VA. Funds provided to CEOss for ALA and Engineering support to R&D efforts. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), Crystal City, VA. Funds provided for engineering and integration support to R&D efforts. AIR FORCE ELECTRONIC SYSTEMS CENTER (ESC), Hanscom AFB, MA. Funds provided for development of AADS hardware. NAVAL SURFACE WARFARE CENTER, Crane Division, Crane, IN. Funds provided for development of UGMS. NAVAIR, Patuxent River, MD. Funds provided for air certification of AADS. OCEAN SYSTEMS ENGINEERING CORP. (OSEC), San Diego, CA. Funds provided software development AADS and UGMS. MARCORSSYSCOM (MCSC), Quantico, VA. Funds provided for development of Increment IV efforts.		
TACTICAL REMOTE SENSOR SYSTEM (TRSS)		
FY06 NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), Crystal City, VA. Funds provided for engineering and integration support to R&D efforts. MARCORSSYSCOM, Quantico, VA. Funds provided to CEOss for ALA and Engineering support to R&D efforts. OCEAN SYSTEMS ENGINEERING CORP. (OSEC), San Diego, CA. Funds provided software development AADS and UGMS. MARCORSSYSCOM (MCSC), Quantico, VA. Funds provided for development of Increment III efforts. MARCORSSYSCOM, Quantico, VA. Funds provided for IOT&E of Increment III efforts. NAVY SYSTEMS MANAGEMENT ACTIVITY (NSMA), Crystal City, VA. Funds provided for engineering and integration support to R&D efforts. MARCORSSYSCOM, Quantico, VA. Funds provided to CEOss for Engineering support to R&D efforts. OCEAN SYSTEMS ENGINEERING CORP. (OSEC), San Diego, CA. Funds provided for software development of Increment III efforts		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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	
COUNTERINTELLIGENCE AND HUMAN INTELLIGENCE (HUMINT) EQUIPMENT PROGRAM (CIHEP)			
<p>FY 05 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software.</p> <p>FY06 MARCORSYSCOM (MCSC), Quantico, VA. Continue to provide program management support for tech refresh and upgrade of program hardware and software.</p> <p>NSMA, MTC, Stafford, VA - Continue to provided for Pgm Mgmt support for tech refresh and upgrade of program hardware and software.</p> <p>FY 06 ACTION SYSTEMS, Las Cruces, NM. Continue to provide engineering, integration and technical support for tech refresh and upgrade of program hardware and software.</p> <p>FY07 MARCORSYSCOM (MCSC), Quantico, VA. Continue to provide program management support for tech refresh and upgrade of program hardware and software.</p> <p>NAVY SYSTEMS MANAGEMENT ACTIVITY, (MTC, Stafford, VA) - Continue to provided for Pgm Mgmt support for tech refresh and upgrade of program hardware and software.</p> <p>ACTION SYSTEMS, Las Cruces, NM. Continue to provide engineering, Integration and technical support for tech refresh and upgrade of program hardware and software.</p>			
TROJAN SPIRIT			
<p>FY06 U.S. Army Cerdec I2WD, Ft Monmouth, NJ - Continue to provide funds for P3I prototype, technical and Engineering support to include EOA, DT and OT.</p> <p>FY07 U.S. Army Cerdec I2WD, Ft Monmouth, NJ - Continue to provide funds for P3I prototype, technical and Engineering support.</p>			
DCGS-I			
<p>FY06 USAF 10.2 Contract. Research and development of DCGS Integrated Backbone (DIB) software and integration into Marine Corps legacy systems.</p> <p>Integrated Teams Solution Facility, Stafford, VA Engineering & technical services, studies, analysis and evaluation for DIB integration, and integration support.</p> <p>FY07 USAF 10.2 Contract. Research and development of DIB software and integration into Marine Corps legacy systems.</p> <p>Integrated Teams Solution Facility, Stafford, VA Engineering & technical services, studies, analysis and evaluation for DIB integration, and integration support.</p>			

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Exhibit R-3 Cost Analysis					DATE: February 2006							
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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TENCAP	Various	Titan	14.066	3.481	12/04	3.799	12/05	3.983	12/06	Cont	Cont	
TENCAP	TBD	TBD	0.685	0.061	12/04	0.015	12/05	0.025	12/06	Cont	Cont	
TPCS	MPR	SPAWAR	4.263	0.000		0.000		1.500	11/06	Cont	Cont	
MSIDS	RCP	NSMA (MTC)	0.245	0.078	02/05	0.147	02/06	0.151	02/07	Cont	Cont	
CIHEP	RCP	Action Systems	0.127	0.107	02/05	0.028	11/05	0.020	11/06	Cont	Cont	
CIHEP	RCP	USAIMA	0.024	0.000		0.000		0.015	04/07	Cont	Cont	
CIHEP	RCP	NGIT	0.012	0.000		0.025	01/06	0.025	01/07	Cont	Cont	
CIHEP	RCP	MTC Service Corp	0.013	0.000		0.025	01/06	0.025	01/07	Cont	Cont	
CIHEP	RCP	MCSC	0.230	0.000		0.041	06/06	0.041	06/07	Cont	Cont	
TRSS-PIP	RCP	OSEC	1.192	0.000		0.000		1.250	01/07	0.000	2.442	
TRSS-PIP	MIPR	ESC	2.580	0.324	11/04	0.000		0.000		0.000	2.904	
TRSS-PIP	MIPR	NAVAIR	0.600	0.053	07/05	0.000		1.300	01/07	0.000	1.953	
TRSS-PIP	RCP	NSMA (MTC)	0.352	1.810	02/05	1.500	01/06	1.445	01/07	Cont	Cont	
TRSS-PIP	RCP	MCSC	0.042	3.161	01/05	3.436	01/06	0.705	01/07	0.000	7.344	
TRSS-PIP	RCP	MCSC (CEOss)	0.000	0.000	01/05	0.355	01/06	0.000		0.000	0.355	
TRSS-PIP	RCP	NPGS	0.000	0.051	03/05	0.000		0.000		0.000	0.051	
TRSS-PIP	MPR	NSWC	0.000	0.297	05/05	0.000		0.000		0.000	0.297	
TRSS-PIP	MPR	USMA	0.000	0.036	05/05	0.000		0.000		0.000	0.036	
TRSS-PIP	RCP	MCLB	0.000	0.021	03/05	0.000		0.000		0.000	0.021	
JSTARS	WR/MPR	SPAWAR	0.433	0.295	12/04	0.553	12/05	0.763	12/06	Cont	Cont	
JSTARS	RCP	MTC	0.304	0.389	01/05	0.000				0.000	0.693	
TROJAN SPIRIT	FFP	CERDEC	0.000	0.000		0.320	12/05	0.322	12/06	Cont	Cont	
DCGSI	RCP	NSMA (MTC)	0.000	0.000		1.080	12/05	0.985	12/06	Cont	Cont	
DCGSI	WR	USAF	0.000	0.000		4.629	11/05	2.960	11/06	Cont	Cont	
JSIPS - TEG	MPR	ASPO	1.331	1.540	02/05	0.892	02/06	1.323	02/07	Cont	Cont	
JSIPS - TEG	RCP	NSMA (MTC)	4.459	0.250	02/05	0.634	11/05	0.776	11/06	Cont	Cont	
JSIPS - TEG	MPR	SPAWAR	0.489	0.000		0.259	10/05	0.286	11/06	Cont	Cont	
JSIPS - TEG	RCP	MCSC (CEOss)	0.000	0.056	10/04	0.054	10/05	0.056	10/06	Cont	Cont	
Subtotal Product Development			31.447	12.010		17.792		17.956		Cont	Cont	
Remarks:												

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Exhibit R-3 Cost Analysis				DATE: February 2006								
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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
COBRA	RCP	various	0.419	0.000		0.000		01/00		0.000	0.419	
TPC	RCP	MCSC	0.961	0.319	12/04	0.354	12/05	0.357	12/06	Cont	Cont	
TPCS	RCP	NSMA (MTC)	0.763	4.138	02/05	2.257	02/06	1.649	02/07	Cont	Cont	
TPCS	MIPR	MCOTEA	0.000	0.348	02/05	0.350	02/06	0.350	02/07	Cont	Cont	
TRSS	RCP	MCSC	0.000	0.069	09/05	0.000		0.000		0.000	0.069	
MSIDS	RCP	NGIT	0.000	0.082	01/05	0.059	01/06	0.059	01/07	Cont	Cont	
IAS MOD KIT	MPR	SPAWAR	0.581	0.425	10/04	0.460	01/06	0.455	01/07	Cont	Cont	
IAS MOD KIT	RCP	NSMA (MTC)	0.358	0.500	11/04	0.574	01/06	0.583	01/07	Cont	Cont	
GCCS I3	RCP	NSMA (MTC)	1.365	0.488	02/05	0.314	02/06	0.318	02/07	Cont	Cont	
GCCS I3	MPR	SPAWAR	0.050	0.580	12/04	1.097	12/05	1.112	12/06	Cont	Cont	
GCCS I3	RCP	MCSC (CEOSS)	0.000	0.048	12/04	0.156	12/05	0.158	12/06	Cont	Cont	
GCCS I3	MPR	JITC	0.000	0.064	12/05	0.000		0.000		0.000	0.064	
TCAC	RCP	NSMA (TITAN)	0.819	0.856	01/05	0.912	01/06	1.511	01/07	Cont	Cont	
IBR	RCP	CSC/MDA	0.811	0.860	12/04	1.137	12/05	1.087	12/06	Cont	Cont	
IBR	WR	SPAWAR	0.040	0.069	12/04	0.000		0.000		Cont	Cont	
ISR	RCP	NSMA (MTC)	0.000	0.533	07/05	1.016	01/06	0.936	01/07	Cont	Cont	
Subtotal Support			6.167	9.379		8.686		8.575		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TROJAN SPIRIT	MIPR	CERDEC	0.000	0.000		0.100	12/05	0.100	12/06	0.000	0.200	
Subtotal T&E			0.000			0.100		0.100		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MSIDS	RCP	NGIT		0.061	01/05	0.041	01/06	0.041	01/07	Cont	Cont	
Subtotal Management			0.000	0.061		0.041		0.041		Cont	Cont	
Remarks:												
Total Cost			37.614	21.450		26.619		26.672		Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail

DATE:

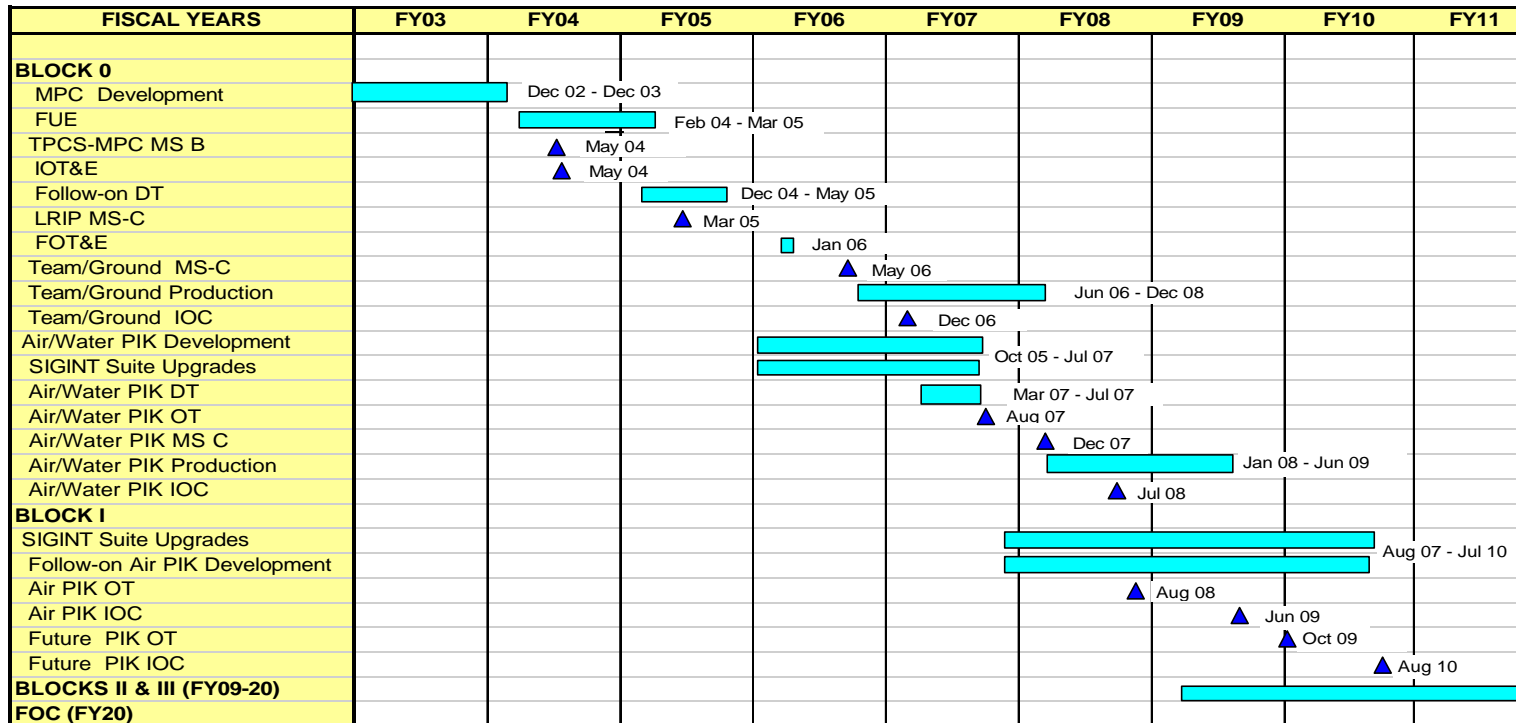
February 2006

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 Intell Suppo: TPCS

FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
4.486	2.607	3.499	2.806	1.501	1.539	1.598	Cont	Cont
2.637	7.641	4.660	3.149	0.301	0.000	0.000	0.000	18.388

Exhibit R-4/4a Schedule Profile/Detail						DATE: February 2006		
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
MS B EDM Dev and Demo	3Q							
DT/FUE	1Q----3Q							
IOT & E	3Q							
MS C LRIP		2Q						
FOT &E			2Q					
Team/Ground MS-C FRP			3Q					
Ground/Team PIK IOC				1Q				
Air/Water PIK OT				4Q				
Air/Water PIK MS C					1Q			
Air/Water PIK IOC					3Q			
AIR PIK OT					4Q			
AIR PIK IOC						3Q		
FUTURE PIK OT							1Q	
FUTURE PIK IOC								4Q
BLOCKS II & III						1Q		

Exhibit R-4/4a Schedule Profile/Detail

DATE:

February 2006

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

TROJAN SPIRIT LITE

FISCAL YEARS	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
MILSTONES										
P3I Increment 1	▲ ADM APR 01									
TROJAN LITE (7)		▲ Fielding Decision SEP 02								
TROJAN LITE (8)			▲ Fielding Decision AUG 03							
P3I Increment 2						▲ ADM OCT 05				
PROCUREMENT										
P3I Increment 1	▲ APR 01									
TROJAN LITE (7)		▲ JAN 02								
TROJAN LITE (8)			▲ JAN 03							
P3I Increment 2						▲	▲	▲	▲	▲
FIELDING										
P3I Increment 1 (includes X-			SEP 02 - APR 05							
TROJAN LITE (7)			SEP - OCT 02							
TROJAN LITE (8)				SEP 03 - MAY 04						
P3I Increment 2										
IOC (TROJAN LITE)										
FOC (TROJAN LITE)			▲ SEP 02	▲ MAY 04						

Line Item No. & Name

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC BLI 463300 Radio Syster TROJAN LITE

(U) PMC BLI 474700 Intell Suppo: TROJAN SPIRIT

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N	0.000	0.420	0.422	0.424	0.425	0.426	0.428	Cont	Cont
(U) PMC BLI 463300 Radio Syster TROJAN LITE	0.962	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.962
(U) PMC BLI 474700 Intell Suppo: TROJAN SPIRIT	0.000	7.300	3.094	4.011	0.656	0.108	0.113	Cont	Cont

R-1 SHOPPING LIST - Item No. 186

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Exhibit R-4/4a, Schedule Profile/Detail

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006			
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 C2273 Air Operations C2 Systems			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	
Project Cost	108.891	86.065	47.341	34.693	20.968	23.008	26.375	
RDT&E Articles Qty								

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

(U) Air Operations 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.

1. The Aviation Radar (AN/TPS-59(V)(3) is a "congressionally mandated" 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 60 degrees and up to one million feet in elevation. Highly Expeditionary Long Range Air Surveillance Radar (HELRASR) is the modernization initiative to replace the AN-TPS 59 Radar.
2. 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.
3. The Composite Tracking Network (CTN), will provide the MAGTF Commander a ground based sensor netting solution that defends friendly forces from incoming aircraft and cruise missiles by correlating sensor measurement data (target position, speed, and heading) from local and remote radars in the Cooperative Engagement Capability (CEC) network. By providing accurate, composite, real-time surveillance tracks, CTN will improve air situational awareness and maximize the effectiveness of our surface launched anti-air weapons at extended ranges. Moreover, CTN lays the foundation for Integrated Fire Control (IFC).
4. The Critical Infrastructure will develop a new capability for video teleconferencing capability via service intranet capabilities.
5. 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.)
6. The MACCS Bridge Supplemental will provide the software development, non-recurring engineering, and testing and integration efforts in support of MACCS Commercial Off The Shelf refresh efforts.
7. 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).
8. "SIAP is the product of fused, common, continual, unambiguous tracks of airborne objects within the surveillance area." The Joint Single Integrated Air Picture (SIAP) Systems Engineer Organization (JSSEO) will identify the most effective and efficient means to achieve a SIAP that satisfies the warfighter needs. The JSSEO is not limited to just material solutions in this effort; all aspects will be considered to produce the SIAP, including tactics, techniques and pcedures and changes to Service operations.
9. 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 with Marine Aviation Weapons and Tactics School (MAWTS) and the Battlestaff Training Facility (BSTF) sharing a system.

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EXHIBIT R-2a, RDT&E Project Justification		DATE:	
		February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems	
10. The Unit Operations Center (UOC) project develops and transitions two Command and Control Imperative Advanced Technology Demonstration (ATDs) (the Expeditionary Integrated Combat Operations Center) and the Joint Tactical Communications ((JT COMMs) ATDs) into various Marine Corps and Joint Engineering and Manufacturing Development (E&MD) efforts. UOC development efforts focus on: Cognitive Task Analysis (CTA); enhanced ergonomic physical design; evaluation of advanced multimedia hardware, integration and networking with advanced development communication systems; and advanced software development to support systems integration and advanced battlefield visualization concepts. UOC developments are tailored to support transition of software and hardware developments as PIPs to the established MAGTF C4I baseline. Unit Operations Center (UOC) will provide a facility and components for the integration of current and planned battlefield			
Note: Currently \$5.1M in FY05 is on the FY2005 Omnibus reprogramming (FY05-38PA). FY05 Supplemental Funding Received: \$3.7M			
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.963	0.000	0.000
RDT&E Articles Qty			
AN/TPS-59 Sustainment : Develop Engineering Change Proposals for software improvements and Diminishing Manufacturing Sources issues.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.555	0.000	0.000
RDT&E Articles Qty			
AN/TPS-59 Sustainment : Development of Far Field radar Repeater to support system rebuilds at Barstow.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	4.037	4.382	3.985
RDT&E Articles Qty			
CAC2S: Program management support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	23.378	10.284	10.502
RDT&E Articles Qty			
CAC2S: SDD. Engineering Development Model (EDM) hardware and software development, design of host processing system, and conduct software integration of Joint mandated applications, developmental testing and evaluation and baseline stabilization.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	39.796	31.694	9.527
RDT&E Articles Qty			
CAC2S: System development, GFE, and testing in accordance with continued sensor interface/integration, communications interface/interoperability development.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.050	0.289	0.000
RDT&E Articles Qty			
JCIET: Logistics support for JCIET exercise. Funding for this program in FY07 and beyond is found in Project C2278 within this PE.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.500	1.000	0.000
RDT&E Articles Qty			
JCIET: Data and analysis for exercise. Funding for this program in FY07 and beyond is found in Project C2278 within this PE.			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.559	0.025	0.000
RDT&E Articles Qty			
JCIET: Program management support. Funding for this program in FY07 and beyond is found in Project C2278 with this PE.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.704	2.785	0.781
RDT&E Articles Qty			
CTN: System and software development. Interface design development for CTN interfaces to Marine Air Command and Control System (MACCS) Family of Systems (FoS) - CAC2S, CLAWS and SLAMRAAM, and AN/TPS-59 and G/ATOR.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.629	3.541	0.757
RDT&E Articles Qty			
CTN: Engineering Development Model (EDM) hardware and software development and support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.103	0.400	0.200
RDT&E Articles Qty			
CTN: Testing and Evaluation: Developmental Testing. Operational assessment, and Interoperability Test and Evaluation (IOT&E) support. Certification of MACCS Family of Systems (FoS) interfaces.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.430	0.464	0.511
RDT&E Articles Qty			
CTN: Program management support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.466	0.000	0.000
RDT&E Articles Qty			
CRITICAL INFRASTRUCTURE: VTC Coop Engineering.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	7.225	3.923	2.960
RDT&E Articles Qty			
MACCS SUSTAINMENT: Hardware obsolescence upgrades for the TAOM, SAAWF, TIU, MCIU, ADCP, CIS and CDLS.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.959	4.063	1.795
RDT&E Articles Qty			
MACCS SUSTAINMENT: Planned software sustainment for the TAOM, ADCP and CDLS.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	6.262	17.571	10.442
RDT&E Articles Qty			
SIAP: Service System Engineering support to Joint SIAP System Engineering Organization.			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.115	1.250	1.300
RDT&E Articles Qty			
SIAP: Engineering and analysis for SIAP system engineer Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.237	0.300	0.325
RDT&E Articles Qty			
TBMCS: USMC TBMCS development.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.169	0.188	0.191
RDT&E Articles Qty			
TBMCS: MCTSSA TBMCS software support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.200	0.214	0.225
RDT&E Articles Qty			
TBMCS: Program management support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.075	0.075	0.077
RDT&E Articles Qty			
TBMCS: Test and Evaluation for TBMCS Upgrades Joint Interoperability.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	5.100	0.000	0.000
RDT&E Articles Qty			
UOC: Issue 71201 OMNIBUS effective 15 Aug 05			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	7.051	2.440	1.946
RDT&E Articles Qty			
UOC: Continue engineering and manufacturing development effort of production representative modules.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.571	0.503	0.478
RDT&E Articles Qty			
UOC: Program Management Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.757	0.674	1.339
RDT&E Articles Qty			
UOC: Configuration analysis for CSSE, CE, and FICCS Unit Operations Centers to include UOC Universal Communications Interface Module (UCIM).			
(U) Total \$	<u>108.891</u>	<u>86.065</u>	<u>47.341</u>

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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 C2273 Air Operations C2 Systems	

(U) PROJECT CHANGE SUMMARY:

(U) FY 2006 President's Budget:

(U) Adjustments from the President's Budget:

(U) Congressional/OSD Program Reductions

(U) Congressional Rescissions

(U) Congressional Increases

(U) Reprogrammings

(U) SBIR/STTR Transfer

(U) Minor Affordability Adjustments

(U) FY 2007 President's Budget:

CHANGE SUMMARY EXPLANATION:

(U) Funding: Includes a \$9.700 adjustment in FY05 to realign COBRA to the correct project. The UOC program has \$5.1M on external deferral in FY05 and \$3.7M from the FY05 Supplemental.

(U) Schedule: Schedule changes have been reflected in exhibit R-4/4a, Schedule Profile/Detail for the UOC, CTN, CAC2S programs.

(U) Technical: Not Applicable.

<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>
93.339	87.444	48.374
17.840		-1.351
-2.217		
-0.071	-1.379	0.318
108.891	86.065	47.341

(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC, BLI #465000, AN/TPS-59	0.000	5.306	4.576	6.261	6.458	4.887	2.823	Cont	Cont
(U) PMC, BLI #465100, AN/TPS-59	27.277	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.277
(U) PMC, BLI #464000, Air Ops C2 Systems	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
(U) PMC, BLI #464000, CAC2S	0.000	3.708	35.531	38.790	57.879	37.007	38.023	Cont	Cont
(U) PMC, BLI #464000, CTN	0.000	0.000	0.000	6.565	17.840	24.596	27.930	Cont	Cont
(U) PMC, BLI #464000, MACCS	17.625	7.369	1.892	1.476	1.776	6.423	1.222	Cont	Cont
(U) PMC, BLI #464000, TBMCS	3.436	6.287	3.633	3.781	3.864	3.495	3.568	Cont	Cont
(U) PMC, BLI #419000, UOC	180.253	0.902	7.574	2.088	8.608	8.998	9.451	Cont	Cont

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
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 C2273 Air Operations C2 Systems
<p>(U) D. ACQUISITION STRATEGY:</p> <p>(U) AN/TPS-59 Radar: The Program Office intends to address Diminishing Manufacturing Sources (DMS) issues by continuing with the Post Production Support Program (PPSP) started in POM 02 initiative, and they will also begin 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 by FY07. Based upon the BCA, the program office intends to sustain 8 of the 11 systems. The refurbishing and sustaining of 8 systems will enable 3 active units (2 per MEF), and 1 reserve unit to have a system with current technology, extend system life cycle and lower the radars' overall operating cost. The remaining 3 systems will transition during the modernization effort.</p> <p>(U) CAC2S: The Systems Development and Demonstration (SDD) phase was implemented after the successful completion of the established Program Definition Risk Reduction (PDRR) phase exit criteria. The SDD phase includes the development and verification of the engineering development model representative of the basic common communications, sensor interface and processing, and display components. The SDD contract contains options for the Production and Deployment Phase (Phased Pricing Fixed Fee). The Production Phase will rely on available commercial items and other equipment meeting the open systems architecture requirement.</p> <p>(U) CRITICAL INFRASTRUCTURE: The program will be executed under Government Works contract by evaluating proposals that will be compatible with Defense Video Services-Global (DVS-G) and service programs.</p> <p>(U) MACCS SUSTAINMENT: The family of systems that comprise the MACCS Sustainment program include all of the currently fielded Air Command and Control assets. These include the Tactical Air Operations Module (TAOM), Communications Data Link System (CDLS), Sector Anti-Air Warfare Facility (SAAWF), Air Defense Communication Platform, Direct Air Support Central Airborne (DASCA), Direct Air Support Central Airborne System (DASCAS), TAOM Interface Unit (TIU), Multi-Channel Interface Unit (MCIU), Communication Interface System (CIS), Joint Tactical Information Distribution System (JTIDS), and Joint Range Extension (JRE).</p> <p>(U) CTN: The USMC's CTN acquisition strategy is to participate in the USN's program procurement and testing, making necessary modifications to support the Marine Corps' requirement.</p> <p>(U) SIAP is a systems engineering effort that will be utilized to reduce risk and increase interoperability for legacy and future C4ISR systems.</p> <p>(U) 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) UOC: The UOC Combat Operations Center (COC) is a Competitively Awarded Contract for design (cost type) and Firm Fixed Price production options.</p>		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
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 C2273 Air Operations C2 Systems

(U) E. Major Performers:

UNIT OPERATIONS CENTER (UOC)

FY05 - FY07 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 04.

FY05 - FY07 SPAWAR, Charleston SC. Support Services. Jan 05

COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S)

FY05 - FY07 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 04.

COMPOSITE TRACKING NETWORK (CTN)

FY05 - FY07 NSWCR Crane, IN. Mobility platform integrator. Jan 04

FY05-FY07 Lockheed Martin, Syracuse NY. Radar integration. Jan 04

FY05-FY07 Science Applications International Corporation, St. Petersburg, FL. Terminal and antenna design and development. Jan 04

FY05-FY07 Raytheon Corporation, St Petersburg, FL. Interface design and development. Jan 04

CRITICAL INFRASTRUCTURE

FY05 SPAWAR, Charleston SC. Product Development. Mar 03.

MACCS SUSTAINMENT

FY05 - FY07 Northrop Grumman Electronic Systems, Woodland Hills, CA. TAOC Engineering and CETS services. Jan 04

FY05 - FY06 Mission Research Corporation, Fort Worth, TX. CDLS Engineering and Software services. May 04

FY05 - FY07 Carisle Research Incorporated, Van Nuys, CA. TAOM Software Sustainment services. Oct 03

FY05 - FY06 Naval Surface Warfare Center, Crane, IN. ADCP, CIS, DASCAS, CDLS Engineering services. Oct 03

SINGLE INTEGRATED AIR PICTURE (SIAP)

FY05 - FY07 RNB Technologies, Inc., Stafford, VA Engineering services. Jan 04

AN/TPS-59 SUSTAINMENT

FY05 Lockheed Martin Corp., Syracuse, NY. Develop ECPs for software improvements and DMS issues. Mar 05.

FY05 Contractor TBD. Develop Far Field Radar Repeater to support system rebuilds at Barstow. Jun 05.

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Exhibit R-3 Cost Analysis					DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communi		C2273 Air Operations C2 Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
AN/TPS-59 SUSTAINMENT	C/CPFF	Lockheed Martin, NY	0.000	2.518	07/05					0.000	2.518	
CAC2S	RCP	Raytheon, San Diego, CA	63.647	54.595	07/05	23.719	02/06	20.679	01/07	Cont	Cont	
CAC2S	WR	SPAWAR	47.824	2.482	01/05	0.300	01/06	0.300	01/07	Cont	Cont	
CAC2S	WR	Center	2.320			0.600	01/06	0.520	01/07	Cont	Cont	
CAC2S	MIPR	Redstone Arsenal	0.000	1.147	07/05					0.000	1.147	
MACCS SUSTAINMENT	RCP	NGES, Woodland Hills, CA	2.127	4.111	01/05	1.986	01/06			0.000	8.224	
MACCS SUSTAINMENT	CPFF	CRL, Van Nuys, CA	0.000	2.693	05/05	2.800	01/06	0.905	01/07	Cont	Cont	
SIAP	RCP	MCSC, Quantico, VA	15.791	7.377	01/05	18.821	01/06	11.742	01/07	Cont	Cont	
TBMCS	MIPR	ESC, Hanscom AFB	0.723			0.300	01/06	0.325	01/07	Cont	Cont	
TBMCS	MIPR	Greater Hampton, VA	0.000	0.100	11/04					0.000	0.100	
CTN	WR	NSWC, Crane, IN	3.106	0.410	10/04	1.406	01/06	0.586	01/07	Cont	Cont	
CTN	RCP	Raytheon Col, FL	1.490			0.275	01/06			0.000	1.765	
CTN	RCP	SAIC, San Diego, CA	2.478	3.000	02/05	4.624	01/06	0.547	01/07	Cont	Cont	
CTN	WR	NSWC, Crane, IN	0.000	0.080						0.000	0.080	
UOC	WR	SPAWAR	4.897	0.500	07/05	1.012	02/06	0.790	01/07	Cont	Cont	
UOC	RCP	General Dynamics	8.623	7.163	01/05	2.101	02/06	2.565	01/07	Cont	Cont	
CRITICAL INFRASTRUCTURE	WR	SSC Charleston	2.474	1.466	05/05					0.000	3.940	
Subtotal Product Development			155.500	87.642		57.944		38.959		Cont	Cont	

Note: Currently \$5.1M in FY05 is on the FY2005 Omnibus reprogramming (FY05-38PA). FY05 Supplemental Funding Received: \$3.7M

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CAC2S	WR	MCSC, Quantico, VA	0.860	0.174	01/05	0.336	01/06	0.280	01/07	Cont	Cont	
CAC2S	WR	MCSC, Quantico, VA	1.624	0.246	01/05	1.000	02/06	1.000	02/07	Cont	Cont	
CAC2S	WR	MCTSSA, CPndltin,CA	0.000			0.050	01/06	0.035	01/07	Cont	Cont	
CAC2S	WR	NSWC, Crane, IN	0.600	0.225	01/05	0.210	01/06	0.200	01/07	Cont	Cont	
CAC2S	WR	JITC	0.080	0.127	01/05	0.150	01/06			0.000	0.357	
CAC2S	RCP	Raytheon, Bedford, MA	0.000	1.659	01/05	1.835	01/06			0.000	3.494	
CAC2S	MIPR	GSA, Alexandria, VA	0.000	0.146	04/05					0.000	0.146	
JCIET	WR	MCSC, Quantico, VA	0.121	0.189	10/04	0.190	01/06			0.000	0.500	
JCIET	WR	NSWC, Crane, IN	0.319	0.100	08/05	0.325	01/06			0.000	0.744	
JCIET	RCP	Anteon, Stafford, VA	0.753	0.800	10/04	0.799	01/06			0.000	2.352	
JCIET	RCP	CACI, Chantilly, VA	0.000	0.020	11/04	0.000				0.000	0.020	
MACCS Sustainment	WR	NGES, Woodland Hills, CA	0.000	2.308	07/05	2.540	02/06	3.070	03/06	Cont	Cont	
MACCS Sustainment	RCP	MRC, Ft Worth, TX	0.000	0.300	07/05					0.000	0.300	
MACCS Sustainment	WR	Hill AFB, Utah	0.000	0.153	10/04	0.160	01/06	0.180	01/07	Cont	Cont	
MACCS Sustainment	WR	NSWC, Crane, IN	0.000	0.619	10/04	0.500	02/06	0.600	01/07	Cont	Cont	
TBMCS	WR	MCTSSA, CPndltin,CA	0.083			0.030	01/05	0.032	01/07	Cont	Cont	
TBMCS	WR	NSWC, Crane, IN	0.050	0.090	01/05	0.105	01/06	0.105	01/07	Cont	Cont	

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Exhibit R-3 Cost Analysis				DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME		
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communi		C2273 Air Operations C2 Systems		

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal Support (Cont.)												
TBMCS	WR	MCSC, Quantico, VA	0.055	0.111	09/05	0.053	01/06	0.054	01/07	Cont	Cont	
CTN	WR	CG 1st MAW	0.014					0.018	01/07	Cont	Cont	
CTN	WR	NAWC, Pax	0.000	0.060	10/04					0.000	0.060	
CTN	RCP	Booze Allen	0.000	0.110	04/05					0.000	0.110	
CTN	WR	MCSC, Quantico, VA	0.085	0.010	01/05	0.040	01/06	0.045	01/07	Cont	Cont	
CTN	MIPR	Anteon,	0.100	0.055	01/05	0.121	01/06	0.133	01/07	Cont	Cont	
Subtotal Support			4.744	7.502		8.444		5.752		Cont	Cont	

Remarks:

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CTN	WR	MCTSSA, CPndlt, CA	0.003			0.018	01/06	0.021	01/07	Cont	Cont	
CTN	WR	MACS-24	0.087			0.018	01/06	0.021	01/07	Cont	Cont	
CTN		MCOTEA TESTING	0.081			0.264	01/06	0.352	01/07	Cont	Cont	
CTN	WR	NWAS, Corona, CA	0.494					0.030	01/07	Cont	Cont	
CTN	RCP	Lockheed Martin	0.000	0.464	05/05					0.000	0.464	
CTN	RCP	MITRE, Bedford, MA	0.000					0.030	01/07	Cont	Cont	
CAC2S	RCP	CECOM (MCOTEA)	0.013	0.400	01/05	13.840	03/06	1.000	02/07	Cont	Cont	
CAC2S	MIPR	WSMR NM	0.000	0.414	04/05					0.000	0.414	
CAC2S	WR	NSWC, Crane, IN	0.000	0.320	02/05					0.000	0.320	
TBMCS	WR	NSWC, Crane, IN	0.100			0.075	01/06	0.077	01/07	Cont	Cont	
UOC		MCOTEA TESTING	0.000	0.500						Cont	Cont	
Subtotal T&E			0.778	2.098		14.215		1.531		Cont	Cont	

Remarks:

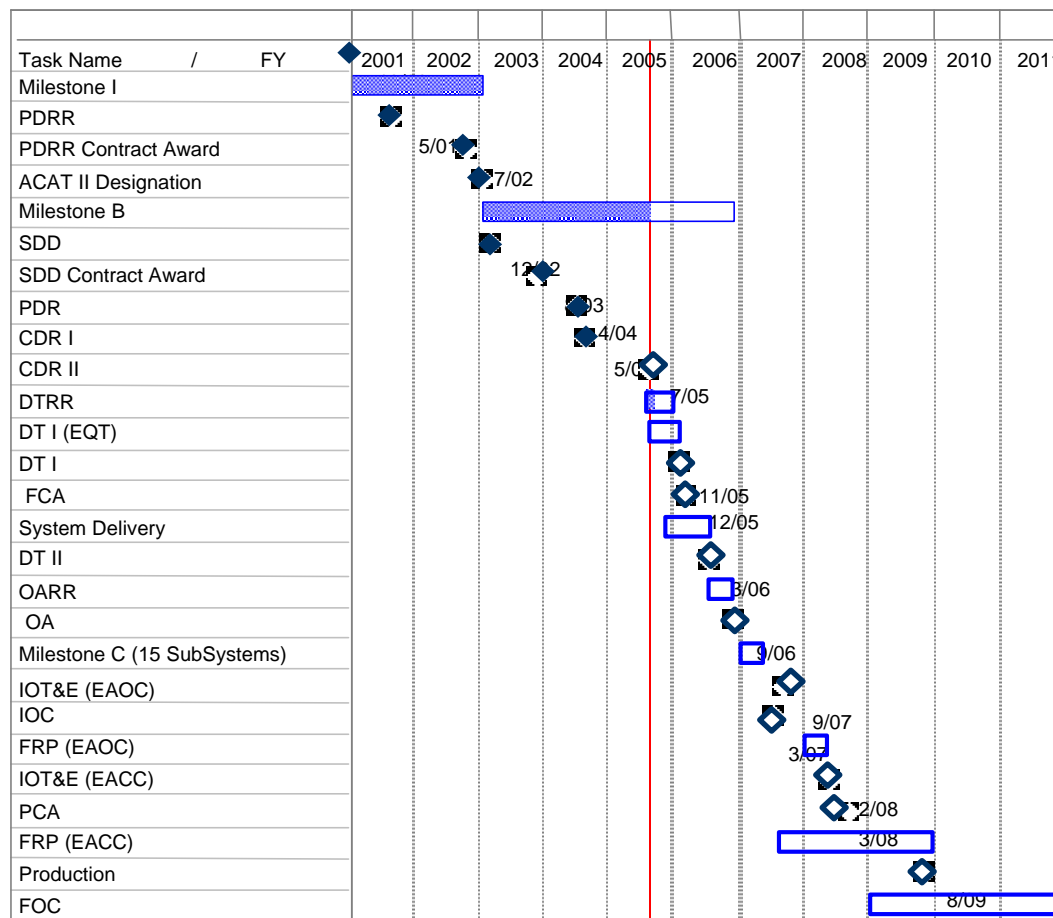
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TBMCS	CPFF	NGIT, Stafford, VA	0.519	0.380	09/05	0.214	01/06	0.225	01/07	Cont	Cont	
CAC2S	IDIQ	NGIT, Stafford, VA	9.774	4.176	01/05	3.200	02/06			0.000	17.150	
CAC2S	RCP	MITRETEK	1.146	1.100	07/05	1.120	01/06			0.000	3.366	
CTN	IDIQ	NGIT, Stafford, VA	0.879	0.757	07/05	0.424	01/06	0.466	01/07	Cont	Cont	
UOC	IDIQ	NGIT, Stafford, VA	3.396	0.136	01/05	0.504	01/06	0.408	01/07	Cont	Cont	
Subtotal Management			15.714	6.549		5.462		1.099		Cont	Cont	

Remarks: Issue 71201 OMNIBUS effective 15 Aug 05

5.100

Total Cost			176.736	108.891		86.065		47.341		Cont	Cont	
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Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems



CAC2S Follow-On Incr

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N, C2273, CAC2S

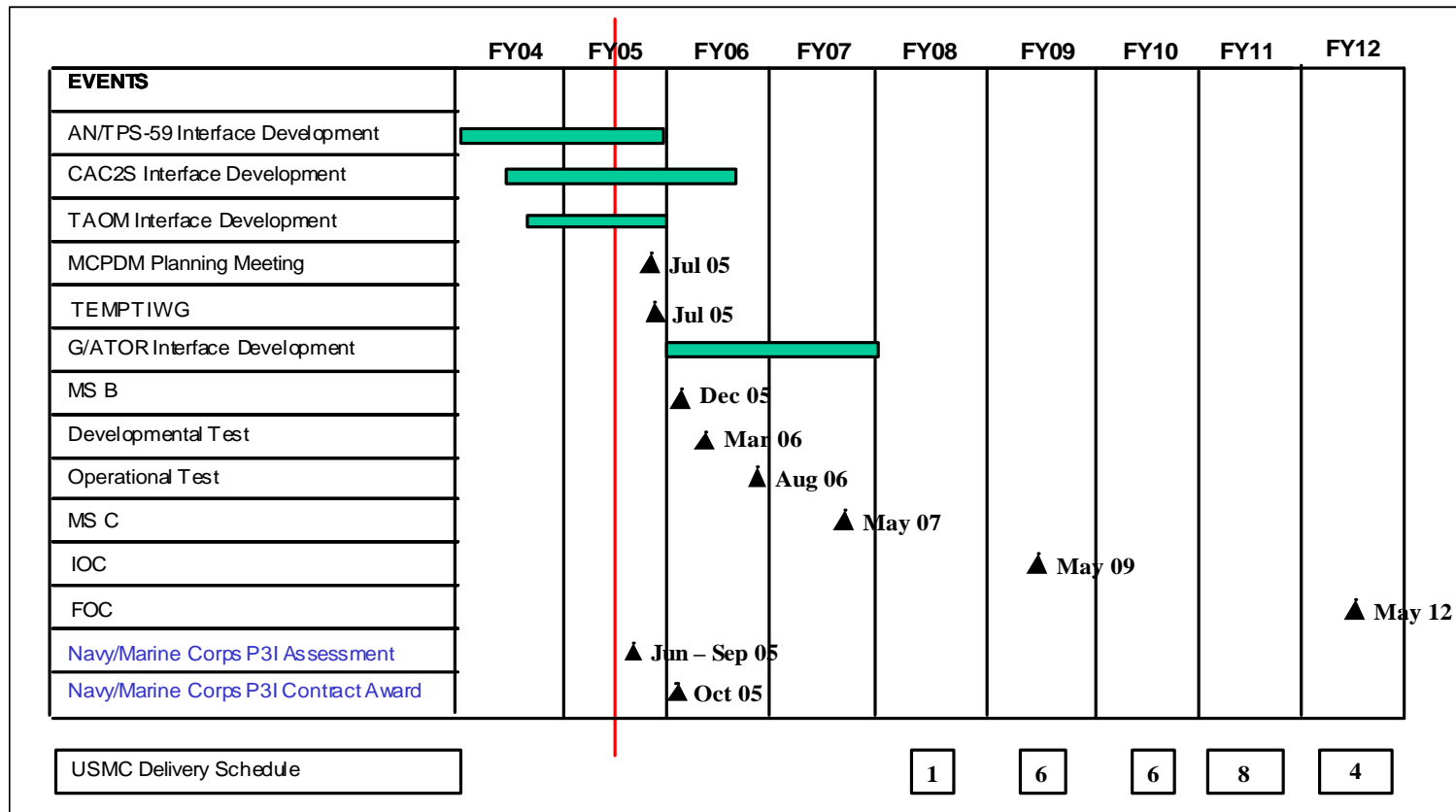
(U) PMC, BLI #464000, CAC2S

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N, C2273, CAC2S	67.211	46.360	24.014	18.827	6.966	0.334	0.000	Cont	Cont
(U) PMC, BLI #464000, CAC2S	0.000	3.708	35.531	38.790	57.879	37.007	38.023	Cont	Cont

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems

CTN



Program Funding Summary

(APPN, BLI #.

(U) RDTE&E,N, C2273, CTN (formally CEC)

(U) PMC, BLI #464000, CTN

<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
4.866	7.190	2.249	6.300	7.872	19.413	23.336	Cont	Cont
0.000	0.000	0.000	6.565	17.840	24.596	27.930	Cont	Cont

R-1 SHOPPING LIST - Item No. 186

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Exhibit R-4/4a, Schedule Profile/Detail

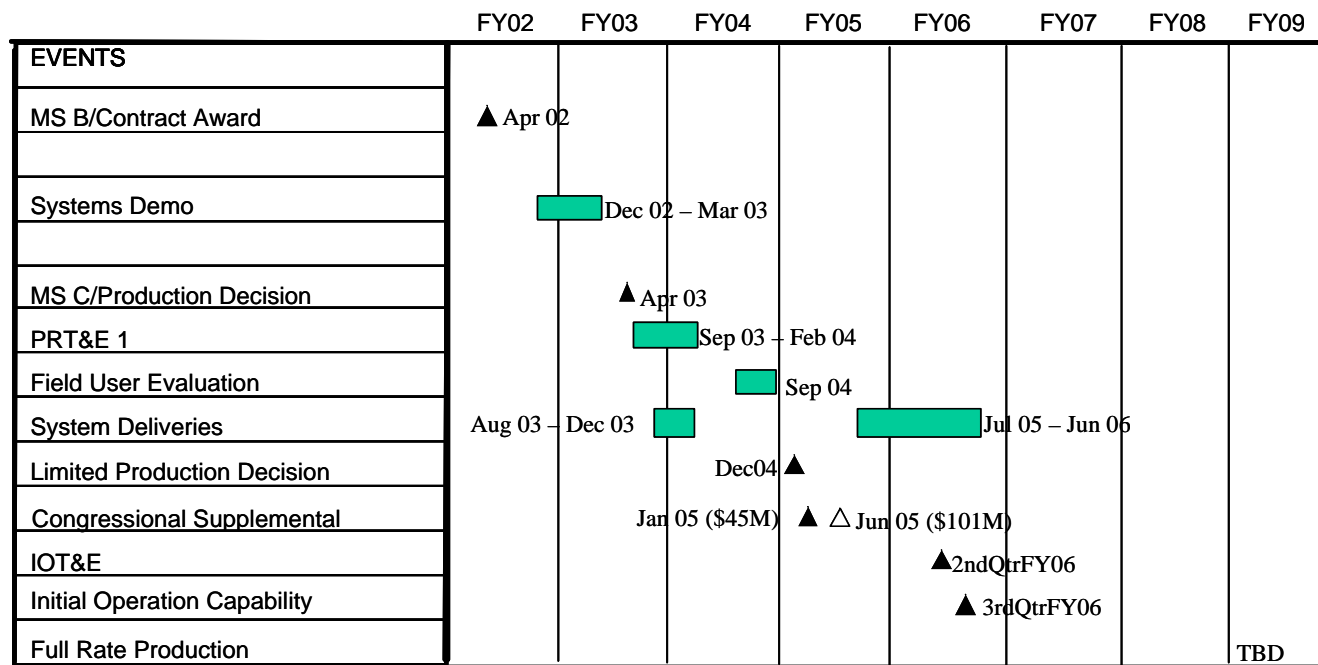
(Exhibit R-4/4a, page 48 of 134)

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems

CTN SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Milestone A (1st Qtr FY02)							
Concept & Technology Development							
Milestone B			1st Qtr				
System Development and Demonstration							
DT			2nd Qtr				
IOT&E			4th Qtr				
Milestone C				3rd Qtr			
Production				4th Qtr*****			
Delivery					3rd Qtr*****		
IOC						3rd Qtr	

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems

UOC Program Schedule



Program Funding Summary (APPN, BLI #, NOMEN)

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N, C2273, UOC	13.479	3.617	3.763	2.645	1.446	1.087	1.146	Cont	Cont
(U) PMC, BLI #419000, UOC	180.253	0.902	7.574	2.088	8.608	8.998	9.451	Cont	Cont

<p align="center">Exhibit R-4/4a Schedule Profile/Detail</p>		<p>DATE:</p> <p align="center">February 2006</p>
<p>APPROPRIATION/BUDGET ACTIVITY</p> <p>RDT&E, N /BA 7 Operational Systems Development</p>	<p>PROGRAM ELEMENT</p> <p>0206313M Marine Corps Communications Sys</p>	<p>PROJECT NUMBER AND NAME</p> <p>C2273 Air Operations C2 Systems</p>

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2006				
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 C2274 Command & Control Warfare Systems				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		14.937	5.896	3.847	3.616	4.189	4.720	3.734
RDT&E Articles Qty								
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(U) Command and Control (C2) Warfare Project includes the following tactical electronic intercept, direction finding, and electronic attack systems:</p> <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. Continuing with an evolutionary acquisition approach, the third suite RREP-SS-2 will provide the RRP's with the capability to conduct SIGINT/EW operations in support of Marine Air Ground Task Force (MAGTF) Commanders during advance force special operations, and other special purpose missions where the use of conventional Radio Battalion assets are not feasible. RREP-SS-2 is a ruggedized, modular; man packable system specifically designed utilizing emerging NDI/COTS/GOTS technology for RRP operations, particularly those conducted under the most austere conditions. The RREP SS-3 will be fielded in the 4th Qtr FY04. It will have the added capability to intercept advanced wireless targets identified by the NSA to be operated from remoted positions. SS-3 will extend its life cycle to six years and product improvements will focus on new software and DSP technologies which may be incorporated into the existing system. This approach allows the program to utilize the major components for the entire life-cycle while still keeping pace with emerging Threats and technologies.</p> <p>Communication Emmitter Sensing and Attacking System (CESAS)/(FLAMES) a system of COTS/GOTS designed to support the 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 Command and Control Warfare plan. The system will replace for the existing AN/ULQ-19 and will assume the mission of sensing and denying the enemy the use of the electromagnetic spectrum, thereby disrupting his command and control system. Though primarily HMMWV-mounted, CESAS will also be capable of both seaborne and airborne deployment and employment, enhancing the Radio Battalion's ability to support Expeditionary Maneuver Warfare. The CESAS operate within the bandwidth of 20 to 1500 MHz (Threshold) 2MHz to 2500 MHz (Objective) against enemy emitters that use modern modulation schemes.</p>								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		2.794	0.030	0.000				
RDT&E Articles Qty								
CESAS - Perform integration efforts of AN/USQ-146(V) 5 and Spiral Development.								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.900	0.250	0.080				
RDT&E Articles Qty								
CESAS - Research and Development Directed Energy and Directional Attack Antennas.								

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2274 Command & Control Warfare Systems		
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.700	0.400	0.500
RDT&E Articles Qty				
CESAS - Research and Development of techniques, tactics and procedures.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.395	0.650	0.250
RDT&E Articles Qty				
CESAS - MCOTEA Testing Support				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.880	0.174	0.196
RDT&E Articles Qty				
CESAS - Testing for CESAS and Radio Threads				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.520	0.030	0.023
RDT&E Articles Qty				
CESAS - Program Management Support.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.808	0.000	0.000
RDT&E Articles Qty				
CESAS - TTP Development and Operational Analysis.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		1.060	0.000	0.000
RDT&E Articles Qty				
MEWSS PIP: System software enhancements and Pre-Planned Product Improvement (P3I).				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.000	0.000	0.000
RDT&E Articles Qty				
MEWSS PIP: ELINT System enhancements.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.300	0.461	0.000
RDT&E Articles Qty				
MEWSS PIP: Operational Readiness enhancements.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		1.113	1.200	0.722
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).				

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006		
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 C2274 Command & Control Warfare Systems		
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		1.510	1.945	1.050
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 performamance (Tactical Data Correlation).				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.336	0.362	0.252
RDT&E Articles Qty				
TERPES: Program Management Support.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.102	0.394	0.774
RDT&E Articles Qty				
RREP: Research and development of the RREP SS-3 PIP to include integration of EA.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.171	0.000	0.000
RDT&E Articles Qty				
RREP: MCOTEA, Development Testing.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		3.348	0.000	0.000
RDT&E Articles Qty				
Next Generation Mobile Elect: MCOTEA, Development Testing.				
(U) Total \$		<u>14.937</u>	<u>5.896</u>	<u>3.847</u>
(U) PROJECT CHANGE SUMMARY:				
	FY2005	FY2006	FY2007	
(U) FY 2006 President's Budget:	11.358	5.989	3.829	
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	3.585			
(U) SBIR/STTR Transfer				
(U) Minor Affordability Adjustments	-0.006	-0.093	0.018	
(U) FY 2007 President's Budget:	14.937	5.896	3.847	
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006					
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			C2274 Command & Control Warfare Systems					
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
	Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U)	PMC BLI 463600 Modification Kits MEWSS	2.665	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.665
(U)	PMC BLI 465200 Modification Kits MEWSS	0.000	1.332	0.209	0.000	0.000	0.000	0.000	0.000	1.541
(U)	PMC BLI 474700 Intell Suppt Eq RREP	1.940	3.992	3.816	1.019	5.191	0.100	1.294	0.000	17.352
(U)	PMC BLI 474900 Mod Kits INTEL TERPES	0.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.82
(U)	PMC BLI 465200 Mod Kit TERPES	0.000	2.982	0.000	3.182	0.000	0.000	0.000	0.000	6.164
(U)	PMC BLI 463600 FLAMES (CESAS)	2.642	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.642
(U)	PMC BLI 465200 Mod Kit FLAMES (CESAS)	0.000	5.315	4.421	0.149	1.356	0.000	0.000	0.000	11.241
(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. This strategy accomplishes several goals: standardization of equipment and software; use equipment that can be acquired and fielded quickly, reduction of logistics requirements, and reduce cost of software maintenance.</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) components to include Marine Corps Common Hardware components and Government off the Shelf (GOTS) DII COE compliant software. Contract is Cost Plus Fixed Fee (CPFF).</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 field 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 RADBN in Feb 04 for FUE, production will begin in FY05 meeting the IOC and FOC in FY07.</p>										

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2274 Command & Control Warfare Systems
(U) E. MAJOR PERFORMERS:		
MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM, PRODUCT IMPROVEMENT PROGRAM (MEWSS-PIP)		
FY05 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support.		
SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements.		
NSMA, MTC, Stafford, VA. Provide funding for system engineering and program management support.		
SPAWAR, Charleston, SC. Provide funding for block upgrade research, development, and integration efforts.		
FY06 LOCKHEED MARTIN, Owego NY Continue to provide funds for software enhancements and P3I support.		
SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements.		
NSMA, MTC, Stafford, VA. Continue to provide funding for system engineering and program management support.		
SPAWAR, Charleston, SC. Continue to provide funding for block upgrade research, development, and integration efforts.		
TACTICAL ELECTRONIC RECONNAISSANCE PROCESSING AND EVALUATION (TERPES)		
FY05 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research.		
LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.		
MARCORSYSCOM, (CEOSS), Titan Corporation, Reston, VA. Provide funds for software integration and testing.		
NSMA, (MTC), ITsFAC, Stafford, VA. Provide integration facility and program management support.		
FY06 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Continue to provide funds for hardware, software and integration research.		
LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.		
MARCORSYSCOM, (CEOSS), Titan Corporation, Reston, VA. Continue to provide funds for software integration and testing.		
NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support.		
FY07 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Continue to provide funds for hardware, software and integration research.		
LOCKHEED MARTIN, Denver CO. Continue to provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems.		
MARCORSYSCOM, (CEOSS), Titan Corporation, Reston, VA. Continue to provide funds for software integration and testing.		
NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support.		
RADIO RECONNAISSANCE EQUIPMENT PROGRAM (RREP)		
FY05 NSMA, (MTC), ITsFAC, Stafford, VA. Provide integration facility and program management support.		
FY06 NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support.		
FY07 NSMA, (MTC), ITsFAC, Stafford, VA. Continue to provide integration facility and program management support.		

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Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev			PROGRAM ELEMENT 0206313M Marine Corps Communication			PROJECT NUMBER AND NAME C2274 Command & Control Warfare Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
MEWSS	RCP	NSMA (MTC)	16.061	0.514	11/04					Cont	Cont	
MEWSS	WR	SPAWAR, S.C	2.241	0.301		0.461	11/05			Cont	Cont	
Next Gen Mobile Elect	RCP	MCLB	0.000	3.348	01/05							
TERPES	RCP	Lockheed Martin	3.349	0.900	01/05	1.133	12/05	0.763	12/06	Cont	Cont	
TERPES	WR	NAWC, Pt. Mugu CA	4.418	0.290	10/04	0.500	10/05	0.300	10/06	Cont	Cont	
TERPES	RCP	NAWC, Pt. Mugu CA	0.000	0.320	02/05	0.000	01/00	0.000	01/00	Cont	Cont	
TERPES	RCP	NCMA (MTC)	0.000	0.650	12/04	1.200	12/05	0.509	12/06	Cont	Cont	
TERPES	RCP	NSMA (AIES)	0.000	0.463	11/04	0.312	11/05	0.200	11/06	Cont	Cont	
RREP	RCP	NSWC, Crane	0.756			0.394	01/06	0.774	01/07	Cont	Cont	
RREP	RCP	NSMA (MTC)	0.000	0.102	02/05							
CESAS	RCP	SPAWARSYSCEN	0.500	2.794	12/04	0.030	12/05			Cont	Cont	
CESAS	CPFF	CTI	0.000	0.395	12/04	0.650	12/05	0.250	12/06	Cont	Cont	
CESAS	RCP	MCLB	0.060	0.900	12/04	0.250	12/05	0.080	12/06	Cont	Cont	
CESAS	MPR	NAVAIR	0.400	0.700	12/04	0.400	12/05	0.500	12/06	Cont	Cont	
Subtotal Product Development			27.785	11.677		5.330		3.376		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
TERPES	RCP	NSMA (MTC)	0.526	0.336	11/04	0.362	11/05	0.252	11/06	Cont	Cont	
CESAS	RCP	NSMA (MTC)	0.350	0.880	10/04	0.174	11/05	0.196	11/06	Cont	Cont	
CESAS	RCP	MCSC	0.322	0.520	10/04					Cont	Cont	
MEWSS	RCP	NSMA (MTC)	0.000	0.545	11/04							
Subtotal Support			1.198	2.281		0.536		0.448		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
RREP	REALIGN	MCOTEA	0.000	0.171	11/04							
Subtotal T&E			0.000	0.171		0.000		0.000		0.000	0.171	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
CESAS	RC	MCSC	0.000	0.808	11/04	0.030	12/04	0.023	12/05	Cont	Cont	
Subtotal Management			0.000	0.808		0.030		0.023		Cont	Cont	
Remarks:												
Total Cost			28.983	14.937		5.896		3.847		Cont	Cont	

Exhibit 4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME: C2274 Command & Control Warfare Systems

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MEWSS Schedule



	FY03	FY04	FY05	FY06	FY07	FY08	FY09	
IOT&E Deficiency Analysis	■							
IOT&E Fixes	■	■						
DT	■							
Delivery & Training	■							
MEWSS PIP Op Assessment	■							
OA Quicklook Report	▲							
Production Decision (MS-C)	▲							
Contractor Logistics Support		■	■	■	■	■	■	
Basing & Fielding Decision		▲						
MEWSS PIP IOC		▲						
MEWSS PIP FOC		▲						
Legacy Repairs & CLS	■	■	■	■	■	■	■	
Legacy Upgrades	■	■	■	■				

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Program Funding Summary

(APPN, BLI #, NOMEN)

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	1.360	0.461	0.000	0.000	0.000	0.000	0.000	0.000	1.821
(U) PMC BLI 463600 Modification Kits MEWSS	2.665	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.665
(U) PMC BLI 465200 Modification Kits MEWSS	0.000	1.332	0.209	0.000	0.000	0.000	0.000	0.000	1.541

Exhibit 4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME: C2274 Command & Control Warfare Systems

MEWSS SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Developmental Testing	4Q	1Q/2Q						
Operational Assessment		2Q/3Q						
MS C			2Q					
Field System MEWSS PIP 1-3			4Q					
Contractor Logistics Support (CLS)			2Q					
IOC MEWSS PIP			4Q					
MEWSS Legacy Block 0 and 1 Production			2Q					
MEWSS Legacy Block 0 and 1 Fielding			4Q					
FOC MEWSS PIP			4Q					
MEWSS Legacy Block 2 and 3 Production			3Q/4Q					
MEWSS Legacy Block 2 and 3 Fielding				1Q	3Q			

Exhibit 4/4a Schedule Profile/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME: C2274 Command & Control Warfare Systems

RREP MILESTONE SCHEDULE

EVENT	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
SS-3 MS-B	3Q								
SS-3 MS-C		4Q							
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									1Q

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDTE&E,N

(U) PMC BLI 474700 INTELLIGENCE SUP EQUIP RREP

<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
0.273	0.394	0.774	0.734	0.910	0.733	0.832	0.000	4.650
1.940	3.992	0.034	1.019	5.191	0.100	1.294	0.000	13.57

Exhibit 4/4a Schedule Profile/Detail						DATE: February 2006				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT NUMBER AND NAME:				
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communication Systems				C2274 Command & Control Warfare Systems				
	RREP UPGRADE SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
	SS-3 MS B	3Q								
	SS-3 MS-C		4Q							
	SS-3 IOC/FOC				2-3Q					
	MS-B AND MS-C for SS-3 PIP will not take place. RREP will become a series of independent efforts to spiral in technology.									
	<p>* MS-B AND MS-C will not take place. RREP will become a series of independent efforts to spiral in technology.</p>									

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EXHIBIT R-2a, RDT&E Project Justification				DATE:				
				February 2006				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Development		0206313M Marine Corps Communication Systems		C2275 Joint Tactical Radio Systems				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		9.812	7.838	14.612	13.870	12.158	8.872	8.087
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
<p>(U) Joint Tactical Radio System - JTRS is a Family of Joint Multi-Channel/Multi-Mode, Software-Defined, Reprogrammable Tactical Radio Systems. JTRS provides a high capacity line of sight (LOS) and beyond line of sight (BLOS) plain and secure voice, data, and video while operating in frequency bands from 2 MHz to 2 GHz. It also provides network connectivity across the radio frequency (RF) spectrum and providing the means for required tactical digital information exchanges.</p> <p>Block 1: Interim Handheld/Manpack and Data Radios. Includes 3 radio systems: the High Frequency Man-pack Radio (HFMR), the Tactical Handheld Radio (THHR), and software upgrades/maintenance for Enhanced Position Location Reporting System (EPLRS) radios.</p> <p>Block 2: Ground Vehicular/Rotary Wing, scaleable to 6 Channels (US Army – Cluster 1): Expeditionary Maneuver Warfare Air Ground Over the Horizon (EMW A/G OTH) Communications Vehicle (initially replacing systems beyond lifecycle: AN/MRC-138, AN/VRC-83), and C2 platforms that require multiple channels in multiple bands (LAV-C2 (Light Armored Vehicle Command and Control Variant, Unit Operations Center (UOC), and EFV (Expeditionary Fighting Vehicle) formerly AAHV.</p> <p>Block 3: Handheld/Man-pack, 1 or 2 Channels (USSOCOM – Cluster 2): Multipurpose Handheld and Manpacks (initially replacing systems beyond lifecycle: AN/PRC-68, PRC-104, PRC-113). These radios should be available in FY06-FY07.</p> <p>Tactical Elevated Antenna Mast System (TEAMS) is a single HMMWV mounted 100' telescoping antenna mast replacing the two AN/MRC- 142 50' antennas. TEAMS provides a safer more efficient mast to allow up to twice the current height capability to overcome obstructions caused by over head canopy and obstructing ridges which eliminates the need to set up additional relay sites. TEAMS will be employed with AN/MRC-2 then JTRS when the AN/MRC-142 is replaced by JTRS.</p> <p>(U) Integrated Intra-Squad Radio Systems (IISR) - Integrated Intra-Squad Radio is a short-range radio that utilizes advanced wireless LAN technology and spread spectrum techniques to provide a hands free intercommunication capability while ensuring a low probability of interception and detection. The IISR consists of a small radio unit powered by 2 AA batteries, a wireless PTT switch, a lightweight headset compatible with the current combat helmet, and a heavy-duty nylon pouch. The dual version integrates with the AN/PRC-148 using an additional Push-to-talk (PTT) switch to provide the user control of two radios with one headset/microphone.</p> <p>(U) Tactical Satellite Comm Terminal - LIGHTWEIGHT MULTIBAND STATELLITE 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>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>								

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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) 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.			
(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-thePause (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 Vechicle (LAV). As a result, it will play a vital role in command and control in all phases of an operation.			
(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.			
(U) MILSTAR Advanced Satellite Terminal (SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINAL (SMART-T)) - This terminal operates with MILSTAR compatible communications payloads and transmits and extremely high frequency (EHF) uplink signal and receives a super high frequency (SHF) downlink signal to provide the MAGTF commander with robust, low probability of intercept, jam resistant communications.			
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.115
RDT&E Articles Qty			
JTRS: Migration/Integration Studies and Analysis. Manpack/Handheld JTRS.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.998	0.000	0.775
RDT&E Articles Qty			
JTRS: Program Support and Management.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.000	0.000	0.000
RDT&E Articles Qty			
JTRS/CONDOR: IMMARSAT connection fees.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.592
RDT&E Articles Qty			
JTRS: Gnd Vehicular (Cluster 1) Early Operational Assessment (EOA), Developmental and Operational Testing (DT/OT).			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	2.261	0.014	0.577
RDT&E Articles Qty			
JTRS: Technical and Engineering Support.			

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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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.570
RDT&E Articles Qty			
JTRS: Contract Advisory and Assistance Services.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.000
RDT&E Articles Qty			
IISR: Concept and Technical Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.000
RDT&E Articles Qty			
IISR: Operational Test and Evaluation			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	1.366	1.853
RDT&E Articles Qty			
SHF Wideband Replacement (HC3): USMC integration efforts.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	1.100	0.000
RDT&E Articles Qty			
TSCT (LMST): Ka-Band Upgrade Effort.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.125	0.000	0.500
RDT&E Articles Qty			
TSCT (LMST): LMST load test			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.200	0.200
RDT&E Articles Qty			
TSCT (LMST): Contract support costs.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.240	0.000	0.000
RDT&E Articles Qty			
UCIM (LMST): Integration support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.123	1.670
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.381	0.123
RDT&E Articles Qty			
Legacy Comm/Elec (Wireless): Develop and test component upgrades for integration into legacy radio systems (TRC-170 / PSC-5)			

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COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	1.042	0.195
RDT&E Articles Qty			
CONDOR: Spiral Development Studies and Integration Development			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.250	0.747	0.789
RDT&E Articles Qty			
CONDOR: Program Support, Logistics Support & Management.			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.500
RDT&E Articles Qty			
CONDOR: Point of Presence Vehicle (PoP-V) Engineering Development Model (EDM) Manufacturing			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.500
RDT&E Articles Qty			
CONDOR: Jump Command and Control Vehicle (JC²-V) EDM Manufacturing			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	0.215	0.253
RDT&E Articles Qty			
CONDOR: Technical, Engineering Support and Contract Advisory, Assistance Services			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	0.300	0.538
RDT&E Articles Qty			
CONDOR: Gateway OT			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	1.060	0.000	0.000
RDT&E Articles Qty			
CONDOR: Integration of Condor Gateway capability into ITVs.			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.753
RDT&E Articles Qty			
CONDOR: Point of Presence Vehicle (PoP-V) DT/OT			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.578
RDT&E Articles Qty			
CONDOR: Jump Command and Control Vehicle (JC²-V) DT/OT			
COST (\$ in Millions)	FY2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	1.506	0.000	0.263
RDT&E Articles Qty			
CONDOR: Integration, update support documentation and contract support costs.			

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RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems		C2275 Joint Tactical Radio Systems	
COST (\$ in Millions)	FY2005		FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000		0.150	0.158
RDT&E Articles Qty				
CONDOR: MCTSSA interoperability/DISA on-orbit tests.				
COST (\$ in Millions)	FY2005		FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.214		0.000	0.000
RDT&E Articles Qty				
CONDOR: KU VSAT Research and Development in support of Condor				
COST (\$ in Millions)				
Accomplishment/Effort Subtotal Cost	0.118		0.000	0.810
RDT&E Articles Qty				
WCR: Contractor Support				
COST (\$ in Millions)	FY2005		FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000		0.000	0.250
RDT&E Articles Qty				
WCR: Operational Testing, MCOTEA				
COST (\$ in Millions)	FY2005		FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.040		0.000	0.050
RDT&E Articles Qty				
WCR: MCTSSA Integration Testing				
(U) Total \$		9.812	7.838	14.612
(U) PROJECT CHANGE SUMMARY:	FY2005	FY2006	FY2007	
(U) FY 2006 President's Budget:	8.536	15.640	14.542	
(U) Adjustments from the NAVCOMPT Budget:				
(U) Congressional/OSD Program Reductions				
(U) Congressional Rescissions		-4.100		
(U) Congressional Increases				
(U) Reprogrammings	1.348			
(U) SBIR/STTR Transfer	-0.067			
(U) Minor Affordability Adjustment	-0.005	-3.702	0.070	
(U) FY 2007 President's Budget:	9.812	7.838	14.612	
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

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EXHIBIT R-2a, RDT&E Project Justification					DATE:				
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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) C. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. & Name	FY2005	FY2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) PMC, BLI# 464300 Jt Tactical Radio Sys	23.349	7.049	0.000	0.000	0.000	0.000	17.851	Cont	Cont
(U) PMC BLI# 463300 Radio Systems (LMST)	16.938	4.106	11.236	4.870	1.310	1.149	1.400	0.000	41.009
(U) PMC BLI# 463300 LEGACY RADIO SYS	2.354	6.858	17.197	13.674	14.644	6.140	2.078	0.000	62.945
(U) PMC BLI# 463300 CONDOR	0.000	3.649	8.425	8.489	8.303	5.951	0.000	0.000	34.817
(U) PMC BLI# 463300 Wireless Cable Replacement	0.000	0.000	0.004	4.075	3.086	0.000	0.000	0.000	7.165
(U) Related RDT&E: Not Applicable									
(U) D. ACQUISITION STRATEGY:									
(U) LEGACY COMM ELECTRONICS MOD:									
(U) Wireless: Provide continous sustainment support to fielded equipment and implemented Service Life Extention 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 simulteaniously 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 capabilites into existing terminals.									
(U) SHF Wideband Replacement (HC3) is the long-term Development of multi-band replacement terminals synchronized with Tranformational 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) JTRS - JTRS is the next generation radio systems to provide required transformational capabilities while leveraging modern technologies to resolve interoperability and lifecycle computer-based command and control systems. These radios will also support Marine Corps requirements for high-capacity, dynamic, mobile, networked, communictaions as the Marine Corps continues to automate its processes. Integration of these radios into C2 platforms, and begin procurement of Ground Vehicular JTRS to replace aging HF Over the Horizon (OTH) (AN/MRC-138) and UHF Air/Ground (AN/VRC-83) radio systems. The integration of JTRS into the EFV will increase its C4I capability and eliminate the cost of retrofitting the EFV for JTRS Life Cycle Cost Reduction. JTRS will reduce development costs for enhancements to future radio system implementations, reduce maintenance support costs by reducing the number of types of radio systems in the inventory, and reduce operating costs through the employment of multi-function radio systems.									

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Development	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2275 Joint Tactical Radio Systems
<p>(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.</p> <p>(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 FY05 and a Mileston C decision during 1st QTR FY06. The CONDOR GW concept has been developed over the past 12 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 is drafting a Technology Transition Agreement (TTA) with ONR for transition to a Program of Record (POR).</p> <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) E. MAJOR PERFORMERS:</p> <p>FY06 TSCT (LMST) HARRIS COMM SYS, MELBOURNE, FL KA-BAND INTEGRATION & UPGRADE, JAN - 06.</p> <p>FY06 SHF WIDEBAND REPLACEMENT (HC3): PM WIN-T CECOM, FT. MONMOUTH NJ</p> <p>FY05 JTRS: MITRE PROGRAM SUPPORT, OCT 04.</p> <p>FY06 JTRS: MITRE PROGRAM SUPPORT, OCT 05.</p> <p>FY05 JTRS: BOEING, ANAHEIM, CA ,MAJOR H/W SUB, HARRIS, ROCHESTER, NY ,BAE, WAYNE NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 04.</p> <p>FY06 JTRS: BOEING, ANAHEIM, CA, MAJOR H/W SUB, HARRIS, ROCHESTER, NY, BAE, WAYNE, NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 05.</p> <p>FY07 JTRS: BOEING, ANAHEIM, CA, MAJOR H/W SUB, HARRIS, ROCHESTER, NY, BAE, WAYNE, NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 06.</p> <p>FY06 LEGACY: TBD</p> <p>FY07 LEGACY: TBD</p> <p>FY06 SHF WIDEBAND</p> <p>FY07 SHF WIDEBAND</p> <p>FY06 CONDOR: TBD</p> <p>FY07 WCR: TBD</p>		

Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			Systems			C2275 Joint Tactical Radio Systems						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 7.838 Award Date	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
LMST Ka-Band Upgrade	FFP	Harris Corp, Florida	0.000	0.000		1.100	01/06	0.000		0.000	1.100	
LMST Technical Upgrades	FFP	Harris Corp, Florida	0.045	0.000				0.500	TBD	Cont	Cont	
SHF Wideband Replacement	MIPR	PM WIN-T, CECOM	0.000	0.125	04/05	1.366	TBD	1.853	TBD	Cont	Cont	
IISR Concept and Technical Develop	CPAF	TBD	0.000	0.000		0.100	12/05	0.000		Cont	Cont	
LCE (Networks) Development	FFP	TBD	0.000	0.000		2.103	01/06	1.650	01/07	Cont	Cont	
LCE (Wireless) Development	FFP	TBD	0.000	0.000		0.371	01/06	0.113	01/07	Cont	Cont	
CONDOR Integ GW ITV's	FFP	SPAWARS Charleston	0.000	1.060						0.000	1.060	
CONDOR KU VSAT Develop	FFP	Cecom Ft Monmouth	0.000	0.214						0.000	0.214	
CONDOR PoP-V EDM Manufacturing	TBD	TBD	0.000	0.000		0.000		0.675	11/06	Cont	Cont	
CONDOR JC2-V EDM Manufacturing	TBD	TBD	0.000	0.000		0.000		1.500	11/06	Cont	Cont	
Studies and Integration Development	TBD	TBD	0.000	0.000		1.042	11/05	0.222	11/06	Cont	Cont	
Condor Immarsat Fees	FFP	Scott AFB, IL	0.000	2.000	03/05	0.000		0.000		Cont	Cont	
UCIM Demo	FFP	Naval Research Lab	0.000	0.240	05/05	0.000		0.000		Cont	Cont	
Subtotal Product Development			0.045	3.639		6.082		6.513		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JTRS TRAVEL	Allot	MARCORSYSCOM	0.060	0.000	10/04	0.000	10/05	0.040	10/06	Cont	Cont	
JTRS Integration/Migration	FFP	Titan, Stafford, VA	1.520	1.998	10/05	0.000	12/05	0.115	12/06	Cont	Cont	
JTRS Tech & Eng Support	FFP	OSEC, Stafford, VA	0.752	2.261	10/04	0.000	10/05	0.577	10/06	Cont	Cont	
CONDOR Program travel	Allot	MARCORSYSCOM	0.000	0.150	10/04	0.040	10/05	0.040	11/06	Cont	Cont	
CONDOR Technical Support	FFP	Titan, Stafford, VA	0.000	0.000		0.175	10/05	0.184	10/06	Cont	Cont	
CONDOR Integration and update Support documentation, Contract support costs	TBD	TBD	0.000	1.506	08/05	0.000	11/05	0.263	11/06	Cont	Cont	
LMST Contractor Support	FFP	NGIT, Stafford, VA	0.000	0.000		0.200	10/05	0.200	10/06	Cont	Cont	
WCR Program Support	FFP	NGIT, Stafford, VA	0.000	0.118	03/05	0.000		0.440	10/06	Cont	Cont	
WCR Contract Adv & Asst	FFP	Titan, Stafford, VA	0.000	0.000		0.000		0.370	10/06	Cont	Cont	
CONDOR Phase 1 IDA Support	FFP	OASD	0.000	0.100	05/05	0.000		0.000		0.000	0.100	
Subtotal Support			2.332	6.133		0.415		2.229		Cont	Cont	
Remarks:												

Exhibit R-3 Cost Analysis						DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			Systems			C2275 Joint Tactical Radio Systems							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
JTRS Gnd Veh EOA/DT/OT	WR	MCOTEA	0.150	0.040	10/04	0.000	10/05	0.150	10/06	Cont	Cont		
JTRS Gnd Veh EOA/DT/OT	MIPR	PM WIN-T, CECOM	1.575	0.000	10/04	0.000	10/05	1.442	10/06	Cont	Cont		
IISR Operational T&E	MIPR	TBD	0.000	0.000		0.100	12/05	0.000		Cont	Cont		
LCE (Networks) Integration Tests	WR	MCTSSA	0.000	0.000		0.020	12/05	0.020	12/06	Cont	Cont		
LCE (Wireless) Integration Tests	WR	TBD	0.000	0.000		0.010	12/05	0.010	12/06	Cont	Cont		
CONDOR Integration Tests	WR	TBD	0.000	0.000		0.150	11/05	0.158	11/06	Cont	Cont		
CONDOR Gateway OT, JC2-V OT, and PoP-V OT	WR	TBD	0.000	0.000		0.300	11/05	1.694	11/06	Cont	Cont		
WCR Integration Testing	FFP	MCTSSA, CA/TBD	0.000	0.000		0.000		0.050	11/06	Cont	Cont		
WCR MOT&E	FFP	MCOTEA	0.000	0.000		0.000		0.250	01/07	Cont	Cont		
Subtotal T&E			1.725	0.040		0.580		3.774		Cont	Cont		
Remarks:													
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
JTRS Program Support	FFP	NGIT,Stafford, VA	0.866	0	10/04	0	10/05	0.735	10/06	Cont	Cont		
JTRS Contract Adv & Assist	FFP	TITAN VA	0.325	0	10/04	0.014	10/05	0.570	10/06	Cont	Cont		
CONDOR Program Support, Contract Adv & Asst	FFP	Titan, Stafford, VA	0.000	0.000		0.747	10/05	0.633	10/06	Cont	Cont		
CONDOR Logistics Support	FFP	NGIT,Stafford, VA	0.000	0.000		0	10/05	0.158	10/06	Cont	Cont		
Subtotal Management			1.191	0.000		0.761		2.096		Cont	Cont		
Remarks:													
Total Cost			5.293	9.812		7.838		14.612		Cont	Cont		

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Exhibit 4/4a, Schedule Profile/Detail

DATE:

February 2006

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

PROGRAM ELEMENT
0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME
C2275 Joint Tactical Radio Systems

JOINT TACTICAL RADIO SYSTEM (JTRS)

FISCAL YEARS	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	To Complete
BLOCK 1 (Interim)									
MANPACK HFMR			207	531	32				
MANPACK MBMMR			26	58	104				
HANDHELD THHR			620	1285	597				
HANDHELD IISR					4000	2500			
TEAMS					15	112			
Milestone			▲ MS 'C'						
BLOCK 2 (JTRS Cluster 1 Vehicular)				EMD			LRIP	LRIP	
Milestones				14	0	0	499	788	Cont
Contract Award	▲ MS 'B'						MS C ▲		
Operation Capability 1ST QTR FY10	▲								
BLOCK 3 (JTRS Manpack/Handheld/SFF)					EMD	LRIP	LRIP	FRP	
Cluster 2 - Handheld									
Milestones				▲ MS 'C'					
Contract Award					▲ USMC Proc.				
Cluster 5 - Handheld/Manpack.SFF									
Milestones			MS 'B' ▲				▲ MS 'C'		
Contract Award (Tentative)								▲ LRIP (tent.)	

Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N	9.812	0.014	3.629	1.457	1.509	1.526	1.547	Cont	Cont
(U) PMC BLI# 464300 JTRS	23.349	7.049	0.000	0.000	0.000	0.000	17.851	Cont	Cont
(U) PMC BLI# 463300	0.000	0.000	0.000	8.527	69.376	49.329	67.239	Cont	Cont

R-1 SHOPPING LIST - Item No. 186

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Exhibit R-4/4a, Schedule Profile/Detail
(Exhibit R-4/4a, page 71 of 134)

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Exhibit 4/4a, Schedule Profile/Detail

DATE:

February 2006

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

JTRS SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Milestone 'B' (Block 2 Gnd Veh)						
Contract Award (Block 2 Gnd Veh)						
SRR (Block 2 Gnd Veh)						
PDR (Block 2 Gnd Veh)						
CDR (Block 2 Gnd Veh)						
Early Operational Assessment (Block 2 Gnd Veh)		1Q				
DT/OT (Block 2 Gnd Veh)			1Q			
Milestone 'C' (Block 2 Gnd Veh)					2Q	
Block 3 Cluster 2 PDR						
Block 3 Cluster 2 CDR	1Q					
Block 3 Cluster 2 EOA	3Q					
Block 3 Cluster 2 DT/OT		1Q				
Block 3 Cluster 2 MS 'III'		2Q				
Block 3 Cluster 5 Events TBD (Awaiting Contract Award)						

R-1 SHOPPING LIST - Item No. 186

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Exhibit R-4/4a, Schedule Profile/Detail

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Exhibit 4/4a, Schedule Profile/Detail

DATE:

February 2006

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

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 ECP Award		◆									
Terminal Deliveries/Fielding			■	■							
IOC			◆								
FOC					◆						
Ka-band development						■					
Integration Fielding Ka-Band Upgrades						■	■	■			
IOC						◆					
FOC								◆			

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC BLI# 463300 Radio Systems (LMST)

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	0.000	1.300	0.700	0.200	0.202	0.300	0.302	Cont	Cont
(U) PMC BLI# 463300 Radio Systems (LMST)	16.938	4.106	11.236	4.870	1.310	1.149	1.400	Cont	Cont

R-1 SHOPPING LIST - Item No. 186

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Exhibit R-4/4a, Schedule Profile/Detail
(Exhibit R-4/4a, page 73 of 134)

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UNCLASSIFIED

Exhibit 4/4a, Schedule Profile/Detail

DATE:

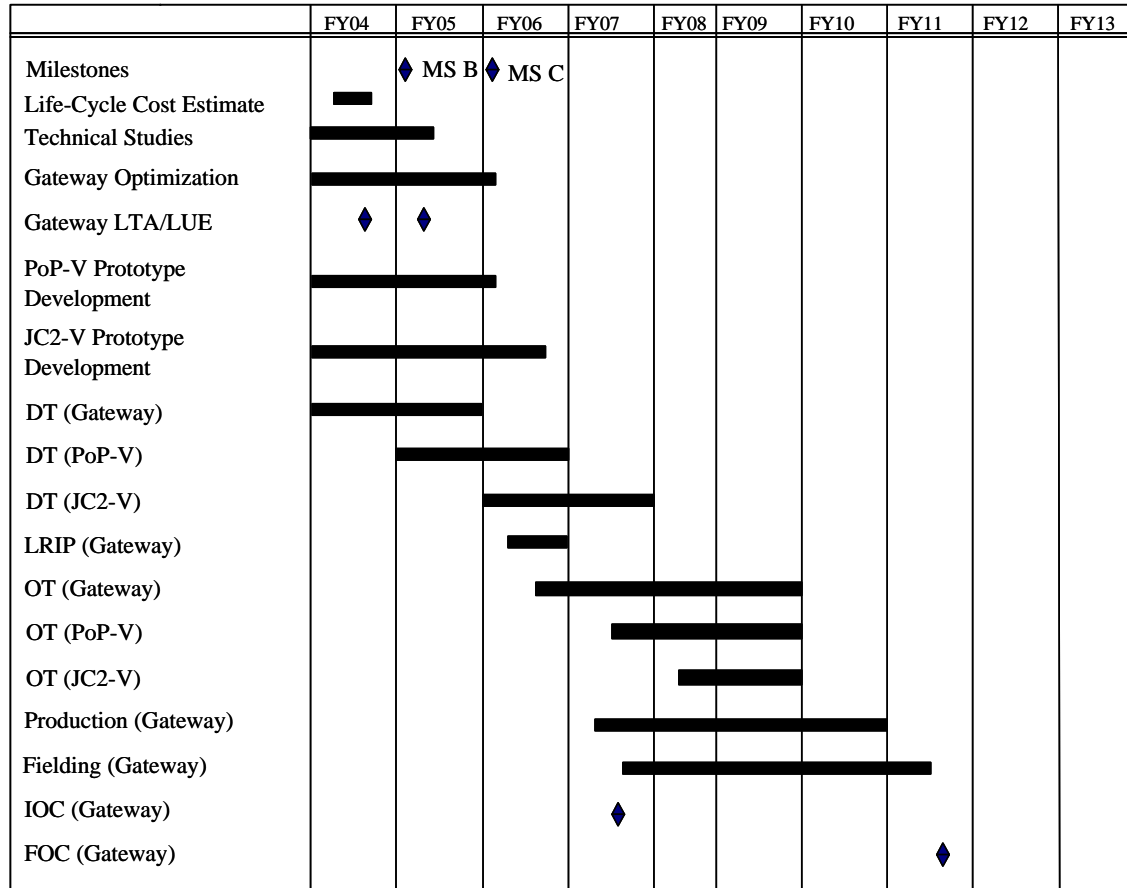
February 2006

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

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)

(U) RDT&E,N

(U) PMC BLI# 463300 CONDOR

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N	0.000	2.454	5.527	7.611	6.374	1.766	0.910	0.000	24.642
(U) PMC BLI# 463300 CONDOR	0.000	3.649	8.425	8.489	8.303	5.951	0.000	0.000	34.817

R-1 SHOPPING LIST - Item No. 186

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Exhibit R-4/4a, Schedule Profile/Detail
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Exhibit 4/4a, Schedule Profile/Detail

DATE:

February 2006

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

PROGRAM ELEMENT
0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME
C2275 Joint Tactical Radio Systems

CONDOR SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
Milestones (B) and ©		1st Qtr	1st Qtr						
Life Cycle Cost Estimate	2-3rd Qtr								
Technical Studies	1Q	2Q							
Gateway Optimization	1Q	-----	1stQ						
Gateway LUE	3rd Qtr	2Q							
PoP-V Prototype Development	1Q	-----	1Q						
JC2-V Prototype Development	1Q	-----	3Q						
DT (Gateway)	1Q	4Q							
DT (PoP-V)		1Q	4Q						
DT (JC2-V)			1Q	4Q					
LRIP Gateway			2-4th Qtr						
OT Gateway			3Q	-----	-----	4Q			
OT (PoP-V)				3Q	-----	4Q			
OT (JC2-V)					3Q	4Q			
Production (Gateway)				1Qtr	-----	-----	4Q		
Fielding (Gateway)				3Q	-----	-----	-----	2Q	
IOC Gateway				2Q					
FOC Gateway								3Q	

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Exhibit R-4/4a, Schedule Profile/Detail
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Exhibit 4/4a, Schedule Profile/Detail

DATE:

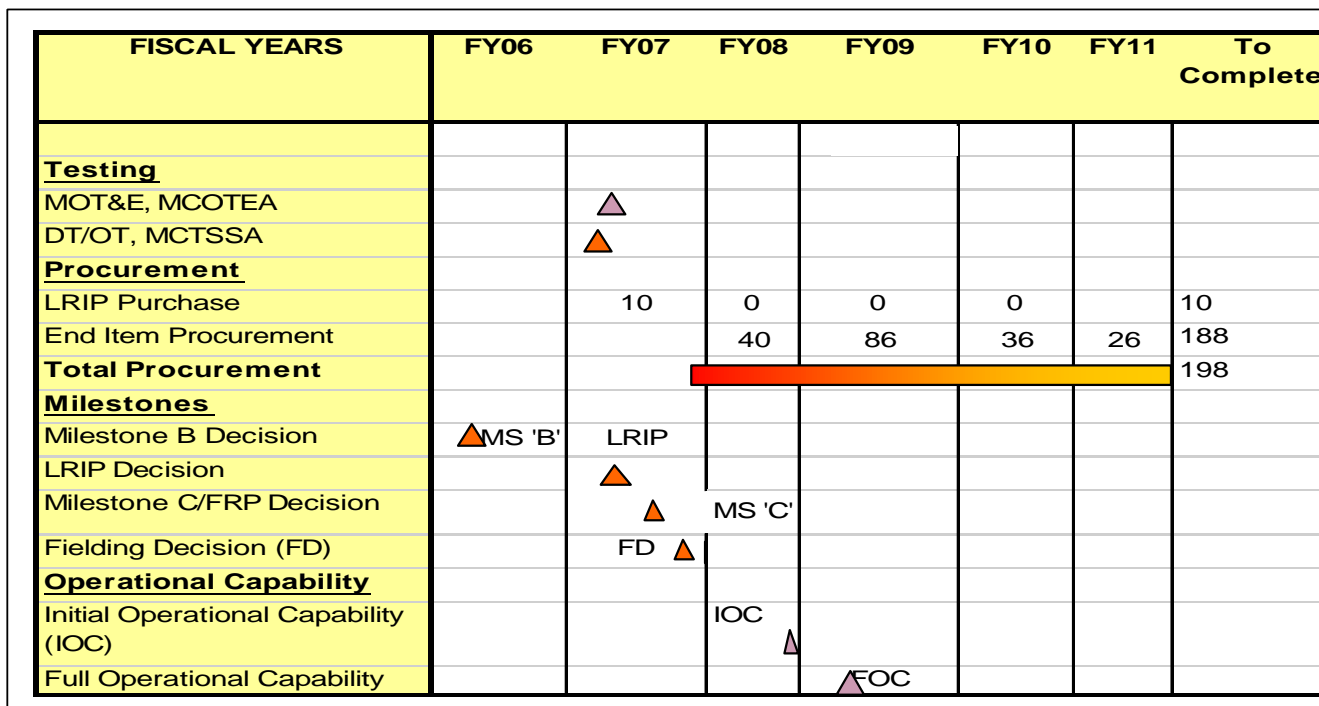
February 2006

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

PROGRAM ELEMENT
0206313M Marine Corps Communication Systems

PROJECT NUMBER AND NAME
C2275 Joint Tactical Radio Systems

Wireless Cable Replacement (WCR)



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N	0.000	0.000	1.110	0.000	0.000	0.000	0.000	Continuing	Continuing
(U) PMC BLI#463300 Wireless Cable Replacement	0.000	0.000	0.004	4.075	3.086	0.000	0.000	Continuing	Continuing

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Exhibit R-4/4a, Schedule Profile/Detail
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Exhibit 4/4a, Schedule Profile/Detail		DATE:
		February 2006
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

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2006				
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				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		3.331	6.127	4.494	4.298	3.499	0.841	0.880
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 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 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 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.441	0.000	0.000				
RDT&E Articles Qty								
JNMS: Program Management and Support								
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.499	0.843	1.820				
RDT&E Articles Qty								
NPM: Develop unique USMC models for JNMS and Developmental work for SPEED Net Centric enhancements.								

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems		
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		1.989	0.000	0.000
RDT&E Articles Qty				
TSM: Intergration Testing and Training Device Engineering				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.090	0.000	0.000
RDT&E Articles Qty				
TSM: Program Support				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.000	1.625	0.000
RDT&E Articles Qty				
TSM: Development of cellular telephone and Voice over IP (VoIP) capability for integration into TSM EDMs and test for interoperability/operational suitability.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.000	1.500	1.500
RDT&E Articles Qty				
ECCS: Develop and test miniaturized components that provide DISN services while On-The-Move/Enroute.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.000	1.034	1.174
RDT&E Articles Qty				
FICCS: Continue Development of miniaturization of hardware solutions, colaborate with MCTSSA SIE and conduct Interoperability Testing at JITC/Gigabite Ethernet, and Wireless Telephone Technology into the FICCS Platform.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.312	0.000	0.000
RDT&E Articles Qty				
FICCS: Development of SPEED Mobile Training				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.000	1.125	0.000
RDT&E Articles Qty				
TDN: Test and Evaluate integrated software requirements.				
(U) Total \$		3.331	6.127	4.494

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2006																																																																																																																																																																																																																							
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<p>(U) PROJECT CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: right;">FY 2005</th> <th style="width: 10%; text-align: right;">FY 2006</th> <th style="width: 10%; text-align: right;">FY 2007</th> <th colspan="6"></th> </tr> </thead> <tbody> <tr> <td>(U) FY 2006 President's Budget:</td> <td style="text-align: right;">3.720</td> <td style="text-align: right;">6.220</td> <td style="text-align: right;">7.642</td> <td colspan="6"></td> </tr> <tr> <td colspan="10">(U) Adjustments from the President's Budget:</td> </tr> <tr> <td colspan="10"> (U) Congressional/OSD Program Reductions</td> </tr> <tr> <td colspan="10"> (U) Congressional Rescissions</td> </tr> <tr> <td colspan="10"> (U) Congressional Increases</td> </tr> <tr> <td> (U) Reprogrammings</td> <td style="text-align: right;">-0.207</td> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td> (U) SBIR/STTR Transfer</td> <td style="text-align: right;">-0.180</td> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td> (U) Minor Affordability Adjustment</td> <td style="text-align: right;">-0.002</td> <td style="text-align: right;">-0.093</td> <td style="text-align: right;">-3.148</td> <td colspan="6"></td> </tr> <tr> <td>(U) FY 2007 President's Budget:</td> <td style="text-align: right;">3.331</td> <td style="text-align: right;">6.127</td> <td style="text-align: right;">4.494</td> <td colspan="6"></td> </tr> <tr> <td colspan="10" style="padding-top: 10px;">CHANGE SUMMARY EXPLANATION:</td> </tr> <tr> <td colspan="10"> (U) Funding: See Above.</td> </tr> <tr> <td colspan="10"> (U) Schedule: Not Applicable.</td> </tr> <tr> <td colspan="10"> (U) Technical: Not Applicable.</td> </tr> </tbody> </table> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;"><u>Line Item No. & Name</u></th> <th style="width: 7.5%; text-align: right;">FY 2005</th> <th style="width: 7.5%; text-align: right;">FY 2006</th> <th style="width: 7.5%; text-align: right;">FY 2007</th> <th style="width: 7.5%; text-align: right;">FY 2008</th> <th style="width: 7.5%; text-align: right;">FY 2009</th> <th style="width: 7.5%; text-align: right;">FY 2010</th> <th style="width: 7.5%; text-align: right;">FY 2011</th> <th style="width: 7.5%; text-align: right;">To Compl</th> <th style="width: 7.5%; text-align: right;">Total Cost</th> </tr> </thead> <tbody> <tr> <td colspan="10">(U)PMC BLI 463400 Communications Switching and Control Systems</td> </tr> <tr> <td>NPM (JNMS)</td> <td style="text-align: right;">2.989</td> <td style="text-align: right;">6.528</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">2.232</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">11.749</td> </tr> <tr> <td>ECCS</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">3.705</td> <td style="text-align: right;">3.528</td> <td style="text-align: right;">0.645</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">7.878</td> </tr> <tr> <td>FICCS</td> <td style="text-align: right;">3.438</td> <td style="text-align: right;">10.859</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.768</td> <td style="text-align: right;">0.846</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">15.911</td> </tr> <tr> <td>TSM</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">27.540</td> <td style="text-align: right;">19.813</td> <td style="text-align: right;">12.892</td> <td style="text-align: right;">16.904</td> <td style="text-align: right;">8.719</td> <td style="text-align: right;">2.106</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">89.814</td> </tr> <tr> <td>(U)PMC BLI 468800 Transition Switch Module (TSM)</td> <td style="text-align: right;">1.840</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">1.84</td> </tr> </tbody> </table> <p>(U) Related RDT&E: Not Applicable.</p>											FY 2005	FY 2006	FY 2007							(U) FY 2006 President's Budget:	3.720	6.220	7.642							(U) Adjustments from the President's Budget:										(U) Congressional/OSD Program Reductions										(U) Congressional Rescissions										(U) Congressional Increases										(U) Reprogrammings	-0.207									(U) SBIR/STTR Transfer	-0.180									(U) Minor Affordability Adjustment	-0.002	-0.093	-3.148							(U) FY 2007 President's Budget:	3.331	6.127	4.494							CHANGE SUMMARY EXPLANATION:										(U) Funding: See Above.										(U) Schedule: Not Applicable.										(U) Technical: Not Applicable.										<u>Line Item No. & Name</u>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost	(U)PMC BLI 463400 Communications Switching and Control Systems										NPM (JNMS)	2.989	6.528	0.000	2.232	0.000	0.000	0.000	0.000	11.749	ECCS	0.000	0.000	0.000	0.000	3.705	3.528	0.645	0.000	7.878	FICCS	3.438	10.859	0.000	0.768	0.846	0.000	0.000	0.000	15.911	TSM	0.000	27.540	19.813	12.892	16.904	8.719	2.106	0.000	89.814	(U)PMC BLI 468800 Transition Switch Module (TSM)	1.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.84
	FY 2005	FY 2006	FY 2007																																																																																																																																																																																																																								
(U) FY 2006 President's Budget:	3.720	6.220	7.642																																																																																																																																																																																																																								
(U) Adjustments from the President's Budget:																																																																																																																																																																																																																											
(U) Congressional/OSD Program Reductions																																																																																																																																																																																																																											
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(U) Reprogrammings	-0.207																																																																																																																																																																																																																										
(U) SBIR/STTR Transfer	-0.180																																																																																																																																																																																																																										
(U) Minor Affordability Adjustment	-0.002	-0.093	-3.148																																																																																																																																																																																																																								
(U) FY 2007 President's Budget:	3.331	6.127	4.494																																																																																																																																																																																																																								
CHANGE SUMMARY EXPLANATION:																																																																																																																																																																																																																											
(U) Funding: See Above.																																																																																																																																																																																																																											
(U) Schedule: Not Applicable.																																																																																																																																																																																																																											
(U) Technical: Not Applicable.																																																																																																																																																																																																																											
<u>Line Item No. & Name</u>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost																																																																																																																																																																																																																		
(U)PMC BLI 463400 Communications Switching and Control Systems																																																																																																																																																																																																																											
NPM (JNMS)	2.989	6.528	0.000	2.232	0.000	0.000	0.000	0.000	11.749																																																																																																																																																																																																																		
ECCS	0.000	0.000	0.000	0.000	3.705	3.528	0.645	0.000	7.878																																																																																																																																																																																																																		
FICCS	3.438	10.859	0.000	0.768	0.846	0.000	0.000	0.000	15.911																																																																																																																																																																																																																		
TSM	0.000	27.540	19.813	12.892	16.904	8.719	2.106	0.000	89.814																																																																																																																																																																																																																		
(U)PMC BLI 468800 Transition Switch Module (TSM)	1.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.84																																																																																																																																																																																																																		

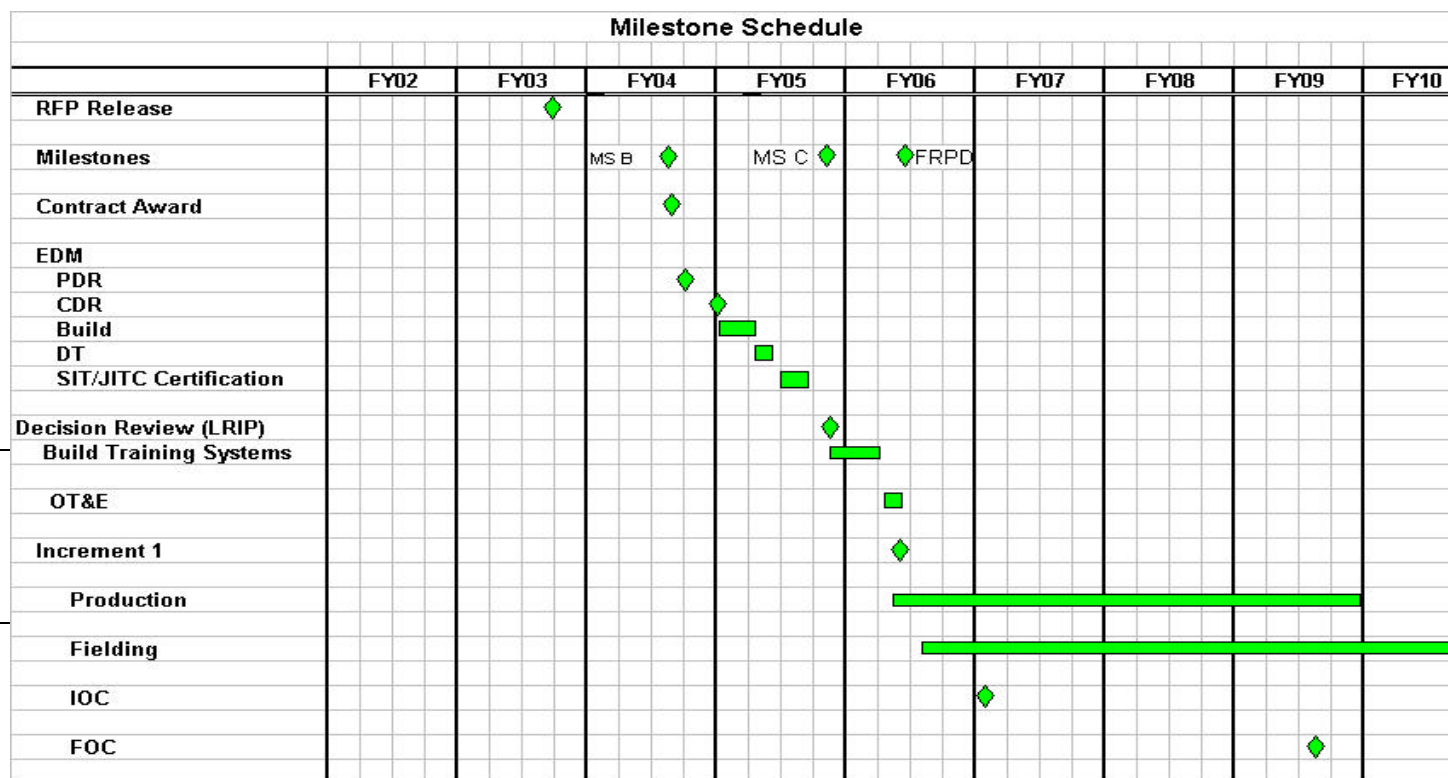
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EXHIBIT R-2a, RDT&E Project Justification		DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems	
<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 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: The TSM acquisition strategy calls for use of FY04 and FY05 R&D to develop and demonstrate a system of sufficient maturity for production. There will be a single contract award for Low Rate Initial Production (LRIP), testing and full-rate production after successful completion of test. FY06 and FY07 R&D will be used to develop potential cellular telephone and Voice over IP (VoIP) technology for insertion into the TSM Engineering Development Models (EDMs). They will then be tested prior to incorporating them into the TSM production systems.</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 will use the evolutionary acquisition strategy with the Block I variant consisting of the initial three JECCS systems. These system are to be fielded during FY-04, with over \$1M of proposed Office of Naval Research Science and Technology (ONR S&T) and \$80K Extended Littoral Battlespace Advanced Concept Technology Demonstration (ELB ACTD) (Wireless) efforts, FICCS Block II will consist of eleven (11) JECCS production units, which will include upgrades to emerging hardware/software. Exploring the Block II/III R&D effort, FICCS Block III will incorporate emerging technologies such as VoIP, Secure Wireless, and possible ATM. into TDN equipment. RDTE funding in FY06 and FY07 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:</p> <p>FY05 - (NPM) NGIT, Winterpark, FL. SPEED enhancements; CECOM, Momouth, NJ. USMC JNMS adapters, MCOTEA, Quantico, VA, and FMF IOT&E support, JAN 05</p> <p>FY06 - (NPM) NGIT, Winterpark, FL. SPEED enhancements; CECOM, Momouth, NJ. USMC JNMS adapters, JAN 06</p> <p>FY04/05 - (TSM) TBD, Prime Contractor, TSM prototype design/build/test, Jun 04</p> <p>FY 06/07 - (TSM) TBD, Prime Contractor, Integration and test of VoIP and Wireless technology</p> <p>FY06 - (ECCS) - Contractor TBD. Develop and test miniaturized components that provide DISN services while On-The-Move/Enroute.</p> <p>FY07(ECCS) - Contractor TBD. Develop and test miniaturized components that provide DISN services while On-The-Move/Enroute.</p> <p>FY05 - (FICCS) Darlington, Inc., Wando, SC. Hardware miniaturization and colaboration/testing with MCTSSA SIE & JITC, OCT 05</p> <p>FY06 - (FICCS) EDO/Darlington, Inc., Wando, SC. Integration of VoIP, Secure Wireless, and ATM Technolgoies, OCT 06</p> <p>FY07 (FICCS) - EDO/Darlington, Inc., Wando, SC. Integration of VoIP, Secure Wireless, and ATM Technologies, OCT 07</p> <p>FY06 (TDN) - TBD</p> <p>FY07 (TDN) - TBD</p>			

Exhibit R-3 Cost Analysis					DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA 7 Operational Sys Dev			PROGRAM ELEMENT 0206313M Marine Corps Communications Sys			PROJECT NUMBER AND NAME 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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
NPM (JNMS)	CP	CECOM, Monmouth, NJ	0.265	0.000		0.000		0.550	01/07	Cont	Cont	
NPM (SPEED)	FP	MCSC, Quantico, Va	1.405	0.593	06/05	0.500	01/06	0.850	01/07	Cont	Cont	
ECCS	FFP	MCSC, Quantico, Va	0.000	0.000		0.900	11/05	0.600	11/06	Cont	Cont	
FICCS	CPFF	EDO/Darlington, Inc.	0.000	0.000		0.614	02/06	0.735	02/07	Cont	Cont	
FICCS	FFP	MCSC, Quantico, Va	0.000	0.312	03/05	0.000		0.000		0.000	0.312	
TSM	FFP	MCSC, Quantico, Va	4.477	1.989	10/04	1.625	10/05	0.000	10/06	Cont	Cont	
TSM	FFP	MCSC, Quantico, Va	0.000	0.090		0.000		0.000		0.000	0.090	
Subtotal Product Dev			6.147	2.984		3.639		2.735		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
NPM (Program Support)	WR	MCSC/MCTSSA	0.314	0.000	10/04	0.143	10/05	0.150	10/06	Cont	Cont	
NPM (Support Contractor)	FP	OSEC, Stafford, Va	0.684	0.347	10/04	0.200	10/05	0.271	10/06	Cont	Cont	
ECCS	FFP	Support Contractor	0.000	0.000		0.600	11/05	0.600	11/06	Cont	Cont	
FICCS	CPFF	Support Contractor	0.450	0.000	10/04	0.300	11/05	0.418	11/06	Cont	Cont	
TDN	FFP	NGIT, Aquia, VA	0.000	0.000		0.225	11/05	0.000	11/06	Cont	Cont	
Subtotal Support			1.448	0.347		1.468		1.439		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
ECCS	WR	MCOTEA	0.000	0.000		0.000		0.300	12/06	Cont	Cont	
FICCS	WR	MCTSSA	0.257	0.000		0.020	11/05	0.020	11/06	Cont	Cont	
FICCS	WR	JITC	0.000	0.000		0.100	03/06	0.000		0.000	0.100	
TDN	FFP	TBD				0.900	11/05	0.000	11/06	Cont	Cont	
Subtotal T&E			0.257	0.000		1.020		0.320		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Total Cost			7.852	3.331		6.127		4.494		Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail		DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME	
RDTE, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems	

TRANSITION SWITCH MODULE



Program Funding Summary

(APPN, BLI #,

(U) RDTE,N

(U) PMC BLI# 468800 Transition Switch Module (TSM)

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

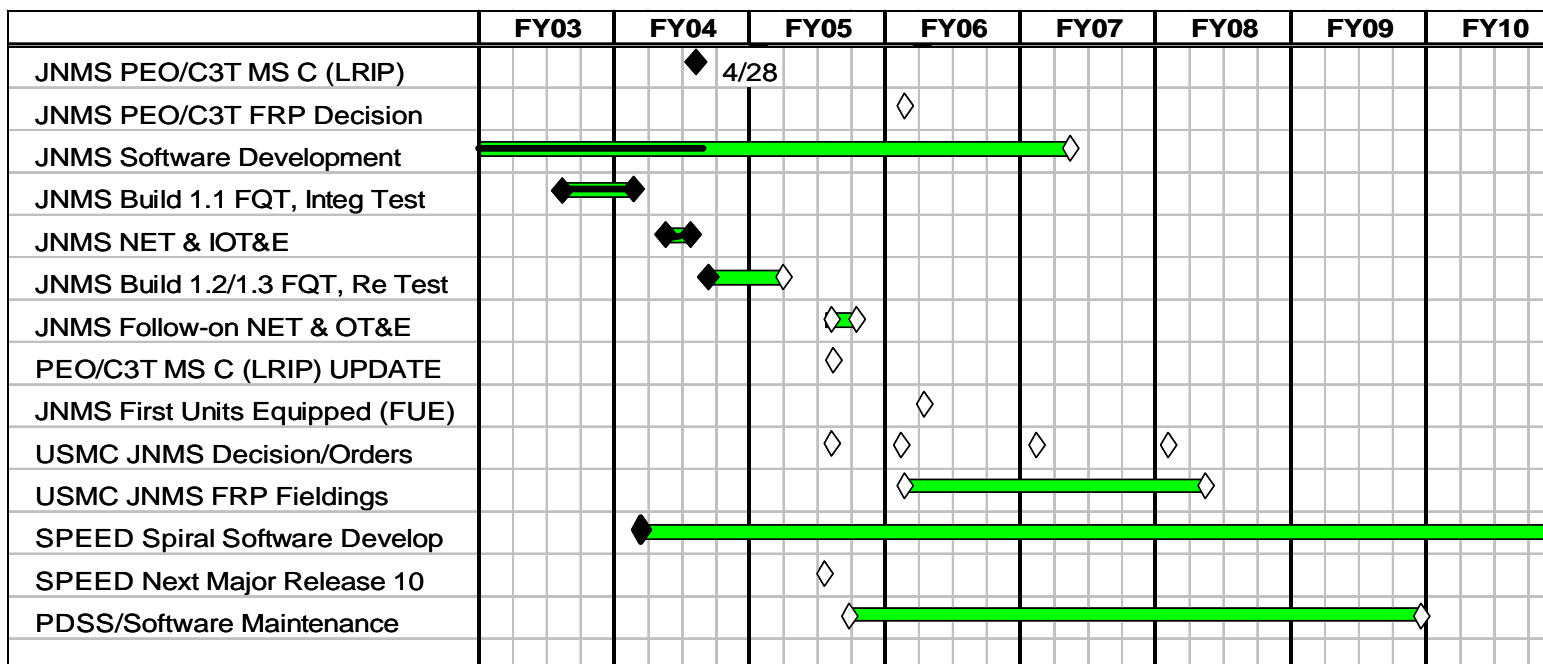
	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDTE,N	2.079	1.625	0.000	0.925	0.934	0.305	0.320	0.000	6.188
(U) PMC BLI# 468800 Transition Switch Module (TSM)	1.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.840
(U) PMC BLI# 463400 Comm Switch & Control Sys	0.000	27.540	19.813	12.892	16.904	8.719	2.106	0.000	87.974

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
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

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Exhibit R-4/4a Schedule Profile/Detail		DATE:
		February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDTE, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems

NPM (JNMS)



Program Funding Summary

(APPN, BLI #, NOMEN)

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDTE,N	0.940	0.843	1.820	2.176	0.000	0.000	0.000	Cont	Cont
(U) PMC BLI# 463400 CommSwitch& Ctl Sys -NPM (JNMS)	2.989	6.528	0.000	2.232	0.000	0.000	0.000	0.000	11.749

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
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

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Exhibit R-4/4a Schedule Profile/Detail		DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME	
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems	

FICCS

Milestone Schedule / Total Resource Summary

	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Milestone III & Contract Award (LRIP)		◆ Sep 01									
Production (LRIP)				Oct 01-Jul 03							
Fielding of Increment 1 (LRIP)				◆ Jun 04							
Prod Decision (Increment 2)				◆ Mar 04							
IOC (3 JECCS)				◆ Jun 04							
Production (Increment 2)						Aug 04-Mar 06					
Fielding (Increment 2)						Jun 05-Apr 06					
R&D/DT (Increment 3)						Jan 05-Dec 05					
Production (Increment 3)							Jan 06-May 07				
Fielding (Increment 3)							Jun 06-Jun 07				
R&D/DT (Increment 4)							Jan 06-Dec 06				
Production (Increment 4) (JECCS Variants)							Oct 06- Dec 07				
FOC						◆ Jun 06					
Fielding (Increment 4)							Mar 07-Feb 08				
R&D-Technology Insertion										Jan 06-Sep 09	
Production Mods/Installation Kits										Jan 08- Jun 11	

Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N	0.312	1.034	1.174	1.046	1.945	0.536	0.560	0.000	6.607
(U) PMC BLI# 463400 Comm Switch & Ctrl Sys - FICCS	3.438	10.859	0.000	0.768	0.846	0.000	0.000	0.000	15.911

Exhibit R-4/4a Schedule Profile/Detail		DATE:
		February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDTE, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2276 Communications Switching & Control Systems

FICCS SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Fielding Decision - Increment 1 (LRIP)	3rdQ							
Production Decision - Increment II	2ndQ							
Full Rate Production of Increment II	4Q-----		2Q					
Fielding Decision - Block II		3Q	4Q					
Increment III R&D		2Q 05---	1Q					
Increment III Production			2Q	3Q				
Increment III Fielding			3Q	3Q				
R&D/DT Increment 4			2Q	1Q				
Production Increment 4 (JECCS Variant)				1Q	1Q			
FOC			3Q					
Fielding Increment 4				2Q	2Q			

Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2006
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

[illegible]

<u>Program Funding Summary</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>									
(U) RDT&EN	0.000	1.500	1.500	0.000	0.000	0.000	0.000	0.000	3.000

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EXHIBIT R-2a, RDT&E Project Justification				DATE:			
				February 2006			
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 C2277 Systems Engineering & Integration			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	8.088	9.537	8.919	9.237	9.417	9.741	9.967
RDT&E Articles Qty							
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(U) This project provides funds for engineering, test, and evaluation activity, which ensures that the systems being developed within the Program Element (PE) employ consistent standards for interoperability and, to the maximum extent feasible, use hardware, and software which is uniform across programs.</p> <p>Joint Distributed Engineering Plant (JDEP) is a DoD mandated program to evaluate the interoperability of the Federation of Systems (FedOS) C4ISR configurations that support joint forces, evaluate the interoperability of new acquisition system, and provide an environment for engineering analysis to correct systems deficiencies and develop new capabilities.</p> <p>Joint Interoperability of Tactical Command and Control Systems (JINTACCS) is a Joint Chiefs-of-Staff (JCS)/DoD-mandated program for joint development, implementation, and testing of data links under the direction of the Defense Information Systems Agency (DIAS).</p> <p>Coalition Warrior Interoperability Demonstration (CWID) (a.k.a. Joint Warrior InterOperability Demonstration (JWID)) is a Joint Chiefs-of-Staff (JCS) and a Chairman of the Joint annual event. CWID remains the premier event to investigate interagency and coalition interoperability problems. CWID defines solutions that can be applied in the operational community. CWID's mission is to conduct military operations to deter, prevent, and defeat threats and aggressions aimed at the US, its territories and assigned areas of responsibilities as directed by the President or Secretary of Defense.</p> <p>Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, Coordination. (MAGTF C4I SEI&C) is a non-acquisition effort which provides centralized planning and execution of Marine Corps Enterprise Information Technology and National Security Systems. It develops, certifies and manages the configuration of the Marine Corps Enterprise Systems and Technical Architecture products and uses these to support enterprise-level systems engineering. It is also used to conduct annual Federation-of-Systems (FEDOS) testing to determine the performance of critical Marine Corps systems-of-systems, directly supporting the Marine Corps Operating Forces.</p>							
(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:							
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost	1.385	1.417	1.465				
RDT&E Articles Qty							
<p>JDEP: DoD mandated program to evaluate the interoperability of the Federation of Systems (FoS) C4ISR configurations that support joint forces, evaluate the interoperability of new acquisition systems, and provide an environment for engineering.</p>							
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost	1.636	1.461	1.542				
RDT&E Articles Qty							
<p>JINTACCS: Joint development, implementation, and testing of data links under the direction of the Joint Interoperability Engineering Organization (JIEO).</p>							

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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 C2277 Systems Engineering & Integration	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.097	1.178	1.251
RDT&E Articles Qty			
CWID: to deter, prevent, and defeat threats and aggressions aimed at the US.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	3.970	5.481	4.661
RDT&E Articles Qty			
MAGTF SEI&C: Engineering and technical support for configuration management of MAGTF C4I systems and its migration to the DII COE. Assist Program Group Managers in meeting C4I Support Plans (KPPs). Maintain MSTAR system as technical roadmap to MAGTF C4			
(U) Total \$	<u>8.088</u>	<u>9.537</u>	<u>8.919</u>
(U) PROJECT CHANGE SUMMARY:			
(U) FY 2006 President's Budget:	7.787	9.697	8.877
(U) Adjustments from the President's Budget:			
(U) Congressional Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases			
(U) Reprogrammings	0.393		
(U) SBIR/STTR Transfer	-0.088		
(U) Minor Affordability Adjustment	-0.004	-0.160	0.042
(U) FY 2007 President's Budget:	8.088	9.537	8.919
CHANGE SUMMARY EXPLANATION:			
(U) Funding: See Above.			
(U) Schedule: Not Applicable.			
(U) Technical: Not Applicable.			
(U) C. OTHER PROGRAM FUNDING SUMMARY: N/A			
(U) Related RDT&E:			
(U) PE 0206623M, Marine Corps Ground Combat/Supporting Arms Systems			
(U) D. ACQUISITION STRATEGY:			
JDEP, JINTACCS, CWID, & MAGTF SE&IC: N/A as these are non-acquisition programs.			
(U) E. Major Performers: FY02-FY05 Northrup Grumman, Stafford VA - Level of effort contract for logistics support, engineering, analytical, acquisition and program management for C4I programs in the areas of systems architectures, configuration management, interoperability and integration.			

Exhibit R-3 Cost Analysis				DATE: February 2006								
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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CWID	MIPR	NSWC Dahlgren	2.483	0.740	12/04	0.755	12/06	0.752	12/06	Cont	Cont	
CWID	WR	MCSC Quantico, VA	0.116	0.020	10/04	0.013	12/06	0.032	12/06	Cont	Cont	
CWID	MIPR	JTIC -INDIAN HEAD	0.116	0.040	10/04	0.033	12/06	0.045	12/06	Cont	Cont	
Subtotal Product Dev			2.715	0.800		0.801		0.829		Cont	Cont	
Remarks:												
				1.385		5.481		4.661				
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CWID	C/FFP	NGIT, Stafford VA	1.724	0.297	10/04	0.377	12/05	0.422	12/06	Cont	Cont	
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	4.416	2.431	10/04	2.673	10/05	1.695	10/06	Cont	Cont	
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.768	0.078	10/04	0.094	10/05	0.145	10/06	Cont	Cont	
MAGTF SEI&C	WR	MCTSSA, Cp Pndlt, CA	0.561	0.862	10/04	1.042	10/05	1.083	10/06	Cont	Cont	
JDEP	T&M	SENSIS Syracuse NY	0.593	0.069	05/05	0.052	05/06	0.072	05/07	Cont	Cont	
JDEP	MPR	NSWC - Crane	0.324	0.140	02/05	0.307	02/06	0.329	05/07	Cont	Cont	
JINTACCS	C/FFP	NGIT, Stafford VA	0.593	0.672	10/04	0.861	10/05	0.901	10/06	Cont	Cont	
JINTACCS	WR	MCTSSA, Cp Pndlt, CA	0.561	0.964	10/04	0.600	10/05	0.641	10/06	Cont	Cont	
Subtotal Support			9.540	5.513		6.006		5.288		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JDEP	WR	MCTSSA, Cp Pndlt, CA	0.656	1.176	10/04	1.058	10/05	1.064	10/06	Cont	Cont	
MAGTF SEI&C	MIPR	MITRE	3.119	0.270	10/04	1.339	10/05	1.381	10/06	Cont	Cont	
Subtotal T&E			3.775	1.446		2.397		2.445		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	0.404	0.329	10/04	0.333	10/05	0.357	10/06	Cont	Cont	
Subtotal Management			0.404	0.329		0.333		0.357		Cont	Cont	
Remarks:												
Total Cost			16.434	8.088		9.537		8.919		Cont	Cont	

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006			
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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		20.247	16.001*	6.423	10.940	6.374	5.490	5.071
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>1. 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 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. CLAWS Increment-0 will provide the initial capability. CLAWS Increment-1 will align with and become the launcher for Army Surface Launched Advanced Medium Range Air-to-Air Missile (SLAMRAAM) Increment-1 program. The Marine Corps relies on the Army SLAMRAAM Increment-1 program to develop the final threshold capability with the CLAWS Increment-1 launcher.</p> <p>2. Ground Based Air Defense Transformation (GBAD-T): Based upon the deployment of the Low Altitude Air Defense (LAAD) Battalion 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 obsolesence 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) replaces the Remote Terminal Unit, an effort that replaces an 18 pound laptop computer that provides Situational Awareness and Command and Control to the Stinger and A-MANPAD teams. Replacement will interface with and be capable of receiving a Common Aviation Command and Control Systems (CAC2S) broadcasted link; and 4) Replaces the unsupportable and obsolete Stinger Missile Night Sight with the PAS-13 Thermal Sight. R&D is required to incorporate the Stinger Missile reticule and hardware interface and execute developmental testing. The PAS-13 provides twice the</p> <p>3. Mounted Cooperative Target ID System (MCTIS) (formerly known as Combat Identification (CID)) - 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: interrogaror/transponder system for Expeditionary Fighting Vehicle (EFVs), Light Amphibious Vehicles (LAVs), and MIA1s; 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>4. The Joint Combat Identification Evaluation Team (JCIET) is a superb opportunity to conduct quality assurance testing of services' systems operating in a joint environment. It conducts assessments in a number of verues including: Military Operations in Urban Terrain (MOUT) exercises, Advanced Comcept 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.)</p> <p>*\$3.7M of FY 2006 funds will be used to forward finance FY 2007</p>								

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EXHIBIT R-2a, RDT&E Project Justification		DATE: <div>February 2006</div>	
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) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.903	0.000	0.000
RDT&E Articles Qty			
CLAWS: Development, design, test and integration issues related to the six Production Representative Systems.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	11.457	0.791	1.073
RDT&E Articles Qty			
CLAWS: Complete Increment 0 Developmental Testing (DT), Operational Testing (OT), and develop a capability with the CLAWS Increment I launcher.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.720	0.000
RDT&E Articles Qty			
CLAWS: Interim Contract Support for Pre-Fielding Increment I assets.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	3.932	1.514	1.369
RDT&E Articles Qty			
CLAWS: Program Management Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.076
RDT&E Articles Qty			
JCIET: Logistics support for JCIET exercise. Funding prior to FY07 is found in Project C2273 within this PE.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.760
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.025
RDT&E Articles Qty			
JCIET: Program management support Funding prior to FY07 is found in Project C2273 within this PE.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.121	1.799	0.000
RDT&E Articles Qty			
GBAD TRANSFORMATION: Program Management Services			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.772	3.700	0.000
RDT&E Articles Qty			
GBAD TRANSFORMATION: Product Development (CLAWS /CAC2S Integration)			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	2.000	0.000
RDT&E Articles Qty			
GBAD TRANSFORMATION: Product Development (Remote Terminal Unit Replacement)			

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EXHIBIT R-2a, RDT&E Project Justification			DATE:	
			February 2006	
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.065	1.100	0.620
RDT&E Articles Qty				
GBAD TRANSFORMATION: Integration development/test (PAS-13 Integration)				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.985	0.440	0.000
RDT&E Articles Qty				
GBAD TRANSFORMATION: Support Costs (MCTSSA/MCCDC/Crane support)				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.812	1.000	1.000
RDT&E Articles Qty				
MCTIS: Program management support.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.500	1.000	0.500
RDT&E Articles Qty				
MCTIS: Test and evaluation as part of the coalition CID ACTD analysis.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.300	1.137	0.700
RDT&E Articles Qty				
MCTIS: Engineer Design Model.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.150	0.300	0.100
RDT&E Articles Qty				
MCTIS: Risk reduction.				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.250	0.500	0.200
RDT&E Articles Qty				
MCTIS: Support software development.				
(U) Total \$		<u>20.247</u>	<u>16.001</u>	<u>6.423</u>
(U) PROJECT CHANGE SUMMARY:				
	<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>	
(U) FY 2006 President's Budget:	22.535	16.253	15.742	
(U) Adjustments from the President's Budget:				
(U) Congressional Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	-1.968		1.351	
(U) SBIR/STTR Transfer	-0.303			
(U) Minor Affordability Adjustment	-0.017	-0.252	-10.670	
(U) FY 2007 President's Budget:	20.247	16.001	6.423	
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable				
(U) Technical: Not Applicable.				

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006					
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) C. OTHER PROGRAM FUNDING SUMMARY:											
<u>Line Item No. & Name</u>			<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC LINE BLI 489000 CLAWS			6.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.144
(U) PMC LINE BLI 305100 CLAWS			0.000	0.418	3.155	2.353	33.689	31.056	17.305	Cont	Cont
(U) PMC LINE BLI 300600 GBAD-T			9.758	1.891	3.894	1.975	12.421	11.533	14.353	Cont	Cont
(U) Related RDT&E:											
PE 0603216C (Ballistic Missile Defense Organization, Theater Missile Defense)											
(U) D. ACQUISITION STRATEGY:											
<p>(U) CLAWS: CLAWS integrates government furnished equipment (GFE), non-developmental items (NDI) and new technology to develop a surfaced launched Anti-Air launcher. CLAWS will utilize the AMRAAM (current inventory DoD missile), existing High Mobility Multi-purpose Wheeled Vehicle (HMMWV) and contractor developed missile launch platform. CLAWS completed Developmental Test (DT) in FY05 and completed Operational Test (OT) during 1st Qtr FY06. IOC will occur no later than 4th Qtr FY06. CLAWS provides a Joint Emergency Operational Capability from FY06-FY09 and provides concept validation and risk mitigation for the SLAMRAAM program. CLAWS Increment I will align with and become the launcher for SLAMRAAM Increment I. The Marine Corps relies on SLAMRAAM Increment I program to develop the final threshold capability with the CLAWS Increment I launcher.</p> <p>(U) GBAD- TRANSFORMATION: 1) GBAD sustainment provides the LAAD Battalions with the equipment required to maintain an Air Defense capability in support of the MAGTF mission. The sustainment program provides lifecycle management functions to support continuous and improved training, obsolescence mitigation through technology and use of commercial or government off-the-shelf equipment, and reduced ownership costs. 2) The Advanced MANPADS is a low risk, low-cost effort that has been designated an Abbreviated Acquisition Program and will enter the acquisition phase at Milestone C, with a fielding decision currently planned for Jan 06. 3) The RTU replacement requires a two year commitment to design, fabricate and test. Following a successful test, out year PMC will support procurement. 4) The PAS-13 Thermal Sight will replace the obsolete and unsupportable Stinger Night Sight (PAS-18). The PAS-13 has been put on contract to support the LAAD units M240B Machine Guns. Using existing DOD contracts with the manufacturer, the Stinger Missile reticule and hardware interfaces are being developed that will double the range and reduce the weight by 50%. This capability will provide a common Thermal Sight for all medium machine guns and the Stinger Missile system.</p> <p>(U) MCTIS: Economy of scales dictate a strategy that highly leverages Joint/coalition evolutionary development efforts. The FY03- FY05 Coalition Combat ID Advanced Concept Technology Demonstration (CCID ACTD) process will evaluate several millimeter wave (mmW) Target Identification systems with the objective of identifying the best system to satisfy the Marine Corps requirement. FY04/05 efforts will focus on unique system integration efforts required on Marine Corps vehicles not already accomplished through similar Joint efforts. It is anticipated system procurement acquisition will be accomplished on a Joint/coalition basis to take advantage of parallel support efforts.</p>											
(U) E. MAJOR PERFORMERS:											
CLAWS:											
FY05 Raytheon, Tewksbury, MA. System Development & Demonstration; Operational Testing.											
FY06 Raytheon, Tewksbury, MA. Fielding/sustainment for CLAWS Increment 0 Launchers. SLAMRAAM Increment I System Development;CLAWS Increment I Launcher DT.											
FY07 Raytheon, Tewksbury, MA. System Development and Demonstration; Developmental Test.											
GBAD Transformation:											
FY05 AT&T, Vienna, VA. Modeling and Simulation.											
FY06 DRS Palm Bay, FL PAS-13 HW/SW Integration											
FY06 Raytheon, Tewksbury, MA RTU Replacement, S/W Integration											
FY06 Raytheon, Tewksbury, MA. GBAD/CLAWS Integration.											
FY07 NSWC, Crane, IN. Technical Engineering Services.											
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					DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communica		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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
CLAWS	RCP	Raytheon, Andover, MA	16.840	0.903	03/05	0.157	01/06	0.113	01/07	Cont	Cont	
GBAD TRANSFORMATION	WR	NSWC, Crane, IN(PAS-13 HW)	0.000	0.772	02/05	0.500	06/06			Cont	Cont	
GBAD TRANSFORMATION	RCP	EG&G, Stafford, VA	0.000	0.188	10/04	0.310	12/06			Cont	Cont	
GBAD TRANSFORMATION	RCP	DRS Tech, Palm Bay FL (PAS-13 SW)				0.500	05/06					
GBAD TRANSFORMATION	RCP	Raytheon, Tewksbury, MA (RTU)				1.000	06/06			Cont	Cont	
GBAD TRANSFORMATION	RCP	Raytheon, SanDiego,CA (CAC2S)	0.000			3.700	02/06			0.000	1.500	1.000
GBAD TRANSFORMATION	RCP	MCSC, QUANTICO, VA	0.000			1.314	01/06					
MCTIS (CID)	WR	NSWC, Crane, IN	0.994	0.974	10/04	2.837	02/06	1.900	01/07	Cont	Cont	
JCIET	WR	MCSC, Quantico, VA						0.390	01/07	Cont	Cont	
JCIET	WR	NSWC, Crane, IN						0.335	01/07	Cont	Cont	
JCIET	RCP	Anteon, Stafford, VA						0.111	01/07	Cont	Cont	
JCIET	MIPR	CECOM, Ft Monmouth						0.025	01/07	Cont	Cont	
Subtotal Product Dev			17.834	2.837		10.318		2.874		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
CLAWS	WR	MCSC, Quantico, Va	0.401	0.025	01/05			0.025	01/07	Cont	Cont	
CLAWS	WR	MCCDC, Quantico, VA	0.200	0.090	01/05			0.094	01/07	Cont	Cont	
GBAD TRANSFORMATION	WR	MCTSSA Cp Pendleton CA				0.120	11/05					
GBAD TRANSFORMATION	WR	NSWC, Crane, IN(ADCP GBDL-E)	0.130			0.395	01/06					
GBAD TRANSFORMATION	RCP	MCCDC, Quantico, VA	0.000	0.798	10/04	0.050	10/05			0.000	1.298	1.298
GBAD TRANSFORMATION	RCP	MCCDC, Quantico, VA	0.000			0.050	04/06			0.000	1.298	1.298
Subtotal Support			0.731	0.913		0.615		0.119		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
CLAWS	RCP	Raytheon, Andover, MA	3.999	2.074	06/05	0.171	01/06			Cont	Cont	
CLAWS	RCP	MCSC Quantico, VA	0.646	1.080	01/05					Cont	Cont	
CLAWS	MIPR	White Sands, NM	2.551	1.769	03/05					Cont	Cont	
CLAWS	WR	MCOTEA, Quantico, VA	0.725	1.037	01/05	0.620	01/06	0.025	01/07	Cont	Cont	
CLAWS	MIPR	JSPO, Eglin, AFB, FL	3.154	1.728	06/05					Cont	Cont	
CLAWS	MIPR	Pt. Mugu, CA	2.045	0.447	03/05					Cont	Cont	
CLAWS	MIPR	PEO ASMD		1.906	06/05					Cont	Cont	
CLAWS	MIPR	SHORAD		1.274	01/05					Cont	Cont	
CLAWS	MIPR	Aberdeen, Maryland		0.142	03/05							
GBAD TRANSFORMATION	MIPR	WSMR, NM (PAS-13/ RTU Testing)	0.000	0.138	07/05			0.611	03/07	0.000	0.138	
GBAD TRANSFORMATION	MIPR	Aberdeen, MD	0.000	0.047	06/05					0.000	0.047	
Subtotal T&E			13.120	11.642		0.791		0.636		Cont	Cont	
Remarks:												

Exhibit R-3 Cost Analysis					DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communica		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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Comp	Total Cost	Target Value of Contract
CLAWS	RCP	NGIT, Stafford, VA	4.204	2.085	02/05	1.600	01/06	1.700	01/07	Cont	Cont	
CLAWS	WR	MCTSSA Cp Pendleton CA	0.024	0.240	01/05			0.060	01/07	Cont	Cont	
CLAWS	WR	NSWC Crane, IN	0.618	0.446	04/05			0.285	01/07	Cont	Cont	
CLAWS	MIPR	AMRDEC Redstone Arsenal, AL	0.598	0.655	01/05	0.477	02/06	0.140	01/07	Cont	Cont	
CLAWS	WR	MCSC, Quantico	0.531	0.391	01/05					Cont	Cont	
GBAD TRAANSFORMATION	WR	MCSC,QUANTICO, VA	0.000			1.100	12/05	0.009	12/06	Cont	Cont	
MCTIS (CID)	RCP	Anteon, Stafford, VA	1.291	0.900	10/04	1.000	01/06	0.500	01/07	Cont	Cont	
MCTIS (CID)	WR	MCSC, Quantico, VA	0.056	0.031	01/05	0.020	10/05	0.030	01/07	Cont	Cont	
MCTIS (CID)	RCP	Tecolote, Goleta, CA	0.000	0.074	01/05	0.080	03/06	0.070	03/07	0.000	0.075	
MCTIS (CID)	RCP	CACI, Chantilly, VA	0.000	0.033	10/04							
Subtotal Management			7.322	4.855		4.277		2.794		Cont	Cont	
Remarks:												
Total Costs			39.007	20.247		16.001		6.423		Cont	Cont	

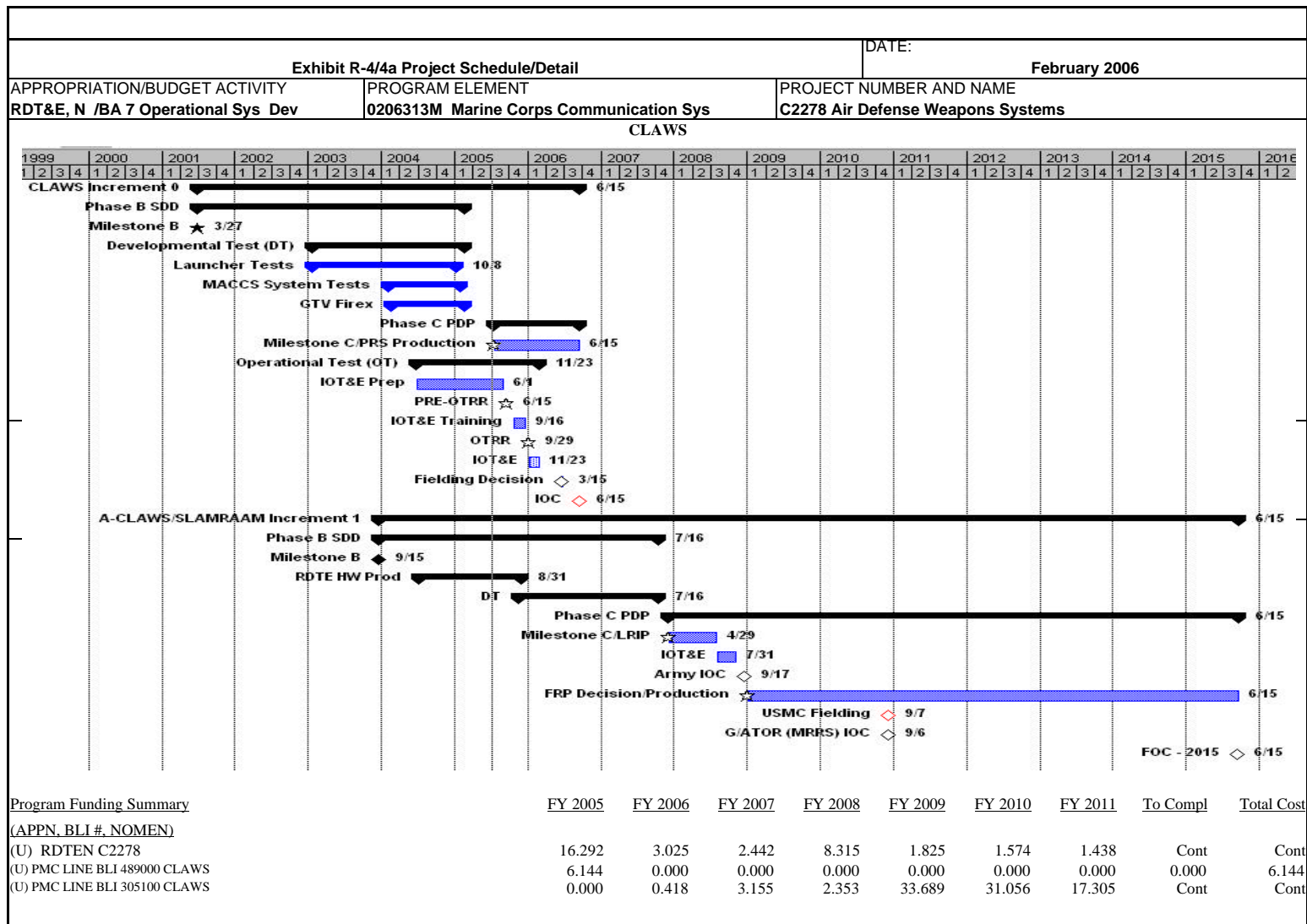


Exhibit R-4/4a Project Schedule/Detail						DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA 7 Operational Sys Dev		PROGRAM ELEMENT 0206313M Marine Corps Communication Sys			PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems			

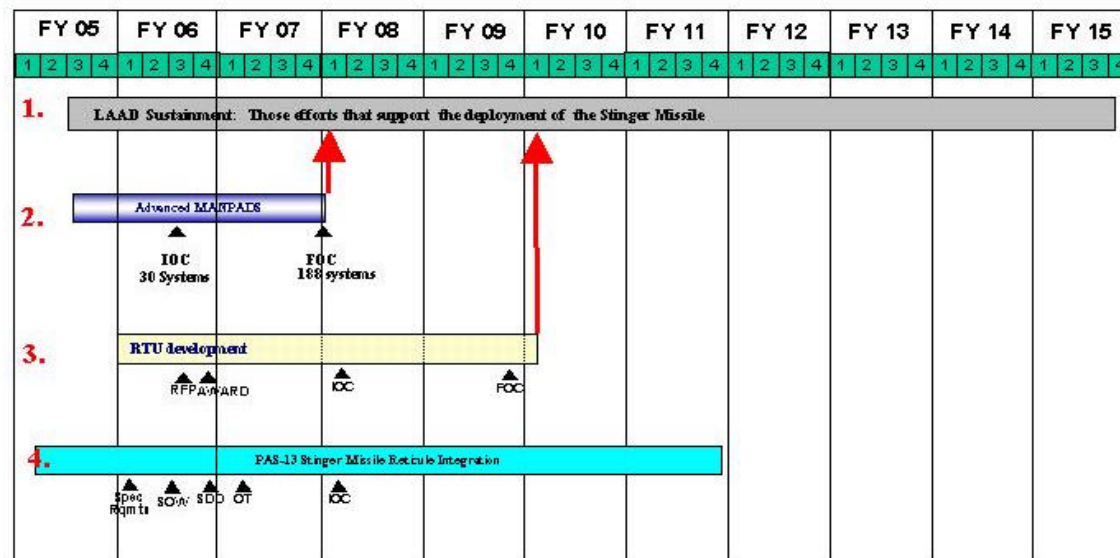
CLAWS SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Increment 0								
Development Testing		2nd Qtr						
LRIP Decision		3rd Qtr						
Operational Testing			1st Qtr					
Fielding Decision			2nd Qtr					
Initial Operational Capability			3rd Qtr					
Increment I								
Development Testing				3rd Qtr				
LRIP Production					2nd Qtr			
Operational Testing					4th Qtr			
Fielding Decision					4th Qtr			
Initial Operational Capability					4th Qtr			

Exhibit R-4/4a Project Schedule/Detail			DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME		
RDTE, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communication Sys	C2278 Air Defense Weapons Systems		



Acquisition Timeline

USMC Ground Based Air Defense (GBAD) (T) Transformation



1

1/17/2006

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDTE, N C2278

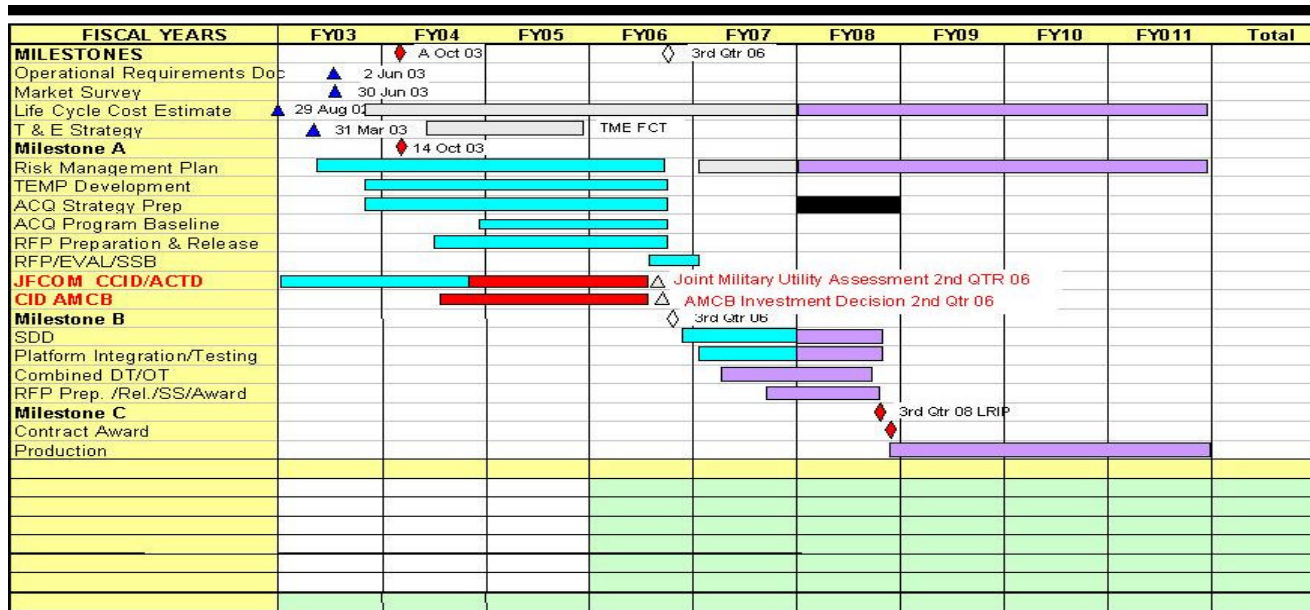
(U) PMC LINE BLI 300600 GBAD-T

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDTE, N C2278	1.943	9.039	0.620	4.174	4.392	3.788	4.231	Cont	Cont
(U) PMC LINE BLI 300600 GBAD-T	9.758	1.891	3.894	1.975	12.421	11.533	14.353	Cont	Cont

Exhibit R-4/4a Project Schedule/Detail						DATE: February 2006				
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				
	GBAD TRANSFORMATION SCHEDULE DETAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
	Advanced MANPADS (AAP)									
	Milestone C/ Full Rate Production			1st Qtr						
	Fielding Decision			2nd Qtr						
	IOC			3rd Qtr						
	FOC				3rd Qtr					
	Remote Terminal Unit (RTU Replacement)									
	Design and Interface Requirements (internal)			3rd Qtr						
	Command and Control Protocol (CAC2S)			3rd Qtr						
	CAC2S Interface (External)				2nd Qtr					
	RTU Replacement Testing				2nd Qtr					
	RTU Replacement Fielding					2nd Qtr				
	PAS-13 Thermal Sight (Stinger Reticule)									
	Requirements / Specifications			2nd Qtr						
	Request for Proposal			2nd Qtr						
	System Development and Demonstration			4th Qtr						
	Operational Testing/FUE				1st Qtr					
	Fielding					1st Qtr				

Exhibit R-4/4a Project Schedule/Detail		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Sys	PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems

MCTIS Program Schedule



Program Funding Summary

(APPN, BLI #, NOMEN)

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

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) R&D Air Def Weaps Sys (MTIS)	2.012	3.937	2.500	0.000	0.000	0.000	0.000	0.000	8.449

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 Operational Sys Development		0206313M Marine Corps Communication Systems			C2315 Training Devices/Simulators			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		4.173	8.806	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
(U) Training simulators supported by this program element include Joint Simulation System (JSIMS), Closed Loop Artillery Simulation System (CLASS), Multiple Integrated Laser Engagement System (MILES 2000), Special Effect Small Arms Marking System (SESAMS), Combined Arms Command & Control Training Upgrade System (CACCTUS), MAGTF Tactical Warfare Simulation (MTWS) Enhancements, Combat Team Decision, and Joint National Training Center (JNTC) Investment. These training systems provide tactical weapons and decision-making skill training from entry level through Marine Air-Ground Task Force (MAGTF) staff level. CLASS integrates Marine Corps training requirements with the Advanced Field Artillery Tactical Data System (AFATDS). Systems will be interoperable and will allow for mission planning, mission rehearsal and concept evaluation in a valid synthetic environment with objective, timely feedback. Through live, virtual and constructive simulation, the Marine Corps will have the means to train jointly, educate, develop doctrine and tactics, formulate and assess operational plans, assess warfighting situations and define operational requirements.								
NOTE: Funding for this project in FY07 and beyond is found in PE 0206623M.								
B. ACCOMPLISHMENTS/PLANNED PROGRAM:								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		2.876		5.666		0.000		
RDT&E Articles Qty								
CACCTUS: Initial Proto-type installed at 29 Palms, CA for verification and validation testing by Tactical Training Exercise Control Group (TTECG). Transitioning continues from test bed to target simulation engine. Integration of operation C4I systems with sim. Development and integration of sim interfaces and visualization tools.								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		0.369		1.582		0.000		
RDT&E Articles Qty								
MILES: Develop Dry Fire Trigger capabililty, develop extended service capability for the Automatic Small Arms Alignment Fixtures (ASAAF), develop Wireless RF Detectors belt, and integrate MK19 40 mm machine gun capability into existing MILES 2000 inventory.								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		0.540		1.558		0.000		
RDT&E Articles Qty								
MTWS Enhancements: The MTWS support initiative includes software and system developement support, training network infrastructure support, and hardware support to include: Develop an HLA interface between MTWS and other simulation models, such as Joint Conflict and Tactical Simulation (JCATS) and other selected models. Develop MTWS-C4I interoperability with Command and Control PC (C2PC), Army Field Artillery Tactical Data System (AFATDS), Theater Battle Management Corps System (TBMCS), and Common Aviation Command and control System (CAC2S). Enhanced man machine interface for efficient exercise generation and execution processes, and reduce the number of exercise operators and controllers. Refresh computer hardware training suites, and supporting training communiation network infrastructure. Develop Course of Actions and Analyses (COAA) capability. Rules of Engagement for multi-sided warfare and organizations. Airborne Electronic Warfare and Advanced synthetic natural environment upgrade.								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		0.388		0.000		0.000		
RDT&E Articles Qty								
Manpower Training Analysis (MTA): Provides MTA support to prioritized collection of Marine Corps System Command (MCSC) sponsored acquisition programs. Provides for development of training plans, conduction of front-end-analysis to assess Total Force Structure impacts and interfacing with TECOM to institutionalize life cycle processes.								
(U) Total \$		4.173		8.806		0.000		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Development	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		PROJECT NUMBER AND NAME C2315 Training Devices/Simulators						
(U) PROJECT CHANGE SUMMARY:									
	<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>						
(U) FY 2006 President's Budget:	4.804	8.941	7.333						
(U) Adjustments from the President's Budget:									
(U) Congressional/OSD Program Reductions									
(U) Congressional Rescissions									
(U) Congressional Increases									
(U) Reprogrammings	-0.511								
(U) SBIR/STTR Transfer	-0.117								
(U) Minor Affordability Adjustment	-0.003	-0.135	-7.333						
(U) FY 2007 President's Budget:	4.173	8.806	0.000						
(U) Funding: See above.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC, BLI# 653200 Trng Dev/Sims	96.546	57.581	13.797	30.651	55.935	17.889	18.609	Cont	Cont
(U) Related RDT&E: Not Applicable									
(U) D. ACQUISITION STRATEGY:									
(U) CACCTUS - Competitive Cost plus Fixed Fee contract (CPFF).									
(U) MILES - Competitively award Cost Plus Incentive Fee (CPIF) development contract.									
(U) MTWS Enhancements - Competitively award Cost Plus Incentive Fee (CPIF) development contract.									
(U) Manpower Training Analysis - Competitively award service contract.									
(U) E. MAJOR PERFORMERS:									
Not Applicable for any programs with Training Devices/Simulators, C2315.									

Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N /BA 7 Operational Sys Development			0206313M Marine Corps Communication Systems				C2315 Training Devices/Simulators					
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Product Dev - MILES	SS/FP	PAE, Deland FL	0.000	0.058	12/04					0.000	0.058	
Product Dev - MILES	SS/FP	Saab, Orlando, FL (Wireless)	0.000	0.000		0.327	02/06			0.000	Cont	
Product Dev - MILES	SS/FP	Unitech, Orlando, FL (DT)	0.000	0.000		0.050	02/06			0.000	0.050	
Product Dev - MILES	SS/FP	Unitech, Orlando, FL (ASAAF)				0.160	02/06			0.000	0.160	
Product Dev - MILES	SS/FP	Unitech, Orlando, FL (MK19)				0.240	02/06			0.000	0.240	
Subtotal Product Dev			0.000	0.058		0.777		0.000		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
SW Dev - Miles	SS/FP	Saab, Orlando, FL (Wireless)				0.327	02/06			0.000	0.327	
SW Dev - Miles	SS/FP	Unitech, Orlando, FL (ASAAF)				0.040	02/06			0.000	0.040	
SW Dev - Miles	SS/FP	Unitech, Orlando, FL (MK19)				0.060	02/06					
Software Dev-CACCTUS	CPFF*	PM TRASYS, Orlando, FL	0.000	2.189	04/05	2.801	01/06			0.000	4.990	
Software Dev-CACCTUS	CPFF*	PM TRASYS, Orlando, FL	0.000	0.625		2.473	03/06			0.000	3.098	
SW Dev, CACCTUS	C/IDIQ	NAWC, Orlando, FL	1.400	0.062	04/05	0.392	01/06			0.000	1.854	
SW Dev, CACCTUS	MIPR	PEO STRI, Orlando FL	1.954							0.000	1.954	
Dev Support - MTWS	SS/T&M	PM TRASYS, Orlando, FL	0.000	0.540	01/05	1.341	10/05			0.000	1.881	
Subtotal SW Dev Support			3.354	3.416		7.434		0.000		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
T & E - MILES	WR	Brooks, AFB, TX	0.000	0.050	01/05						0.050	
T & E - MILES	WR	Crane, IN (Omega 36)	0.000	0.051	01/05						0.051	
T & E - MILES	WR	Dahlgren, VA	0.000	0.010	02/05						0.010	
T & E - MILES	WR	MCSC, Quantico, VA	0.000	0.005	02/05						0.005	
T & E - MILES	WR	Crane, IN	0.000	0.050	10/04						0.050	
Subtotal Dev T&E			0.000	0.166		0.000		0.000		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Program Support - MTWS	SS/T&M	MCSC, Quantico, VA	0.000			0.214	10/05				0.214	
Program Support - MTA	C/IDIQ	MCSC, Quantico, VA	0.000	0.388	04/05						0.388	
Program Spt - MILES	WR	NAWC, Orlando, FL	0.191	0.145	10/04						0.336	
Subtotal Management Spt			0.191	0.533		0.214		0.000		Cont	Cont	
Remarks:												
Total Cost			3.545	4.173		8.425		0.000		Cont	Cont	

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EXHIBIT R-2a, RDT&E Project Justification					DATE:		
APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA-7 Operational Systems Dev					February 2006		
PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems					PROJECT NUMBER AND NAME C2510 MAGTF CSSE & SE		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011
Project Cost	17.278	17.453	35.311	20.874	26.271	17.047	25.696
RDT&E Articles Qty							
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <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>Automated Information Technology (AIT) is the proper mix of a suite of technologies that enables the user to efficiently and effectively capture, aggregate, transfer data and, integrate with Logistics Automated Information Systems (LOG AIS) using the optimum technology. Individual user's data and information will be integrated with DoD-wide systems technologies, software, and encoding formats as well as international commercial applications. AIT will facilitate data collection and flow to other AISs to better achieve Total Asset Visibility (TAV), enhancing and streamlining business processes and warfighting capability. AIT will remain interoperable with current DoD applications and capable of assimilating process and technological advancements.</p> <p>Transportation Systems Portfolio (formerly known as TC-AIMS II) funding supports the fielding, maintenance and sustainment of two Joint deployment programs—Integrated Computerized Deployment System (ICODES) and Aircraft Air Load Planning System (AALPS)—as well as the software maintenance and sustainment of our existing legacy systems—MAGTF LOGAIS (MDSS II/TC AIMS), Cargo Movement Operations System (CMOS), and Automated Manifest System – Tactical (AMS-TAC).</p> <ul style="list-style-type: none"> - 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. - 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. - Integrated Computerized Deployment System (ICODES). Ship load planning software application. <p>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.</p> <ul style="list-style-type: none"> - Automated Manifest System – Tactical (AMS-TAC). AMS is a transportation tool that utilizes AIT technologies to facilitate In-transit Visibility/ Total Asset Visibility (ITV/TAV) for DLA, the US Army, USN and USMC. -TC-AIMS II provides the hub for the OSD mandated Joint transportation suite of systems that will provide mobility and sustainment capability to all services and bring the Marine Corps into compliance with Department of Defense Reform Initiative 54. TC-AIMS II is a Joint transportation and deployment Automated Information System (AIS) supporting the DOD mission areas of mobility and sustainment. <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>							

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDTE, 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>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.</p> <p>The 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. The GCSS CRD requires an IOC in FY04 and FOC in FY06. Specific ILC objectives are desired by 2004. 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 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 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 situational 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> <p>Joint Forces Requirement Generation II (JFRG II) The mission of JFRG II is to enhance and increase the ability of Joint Force planners and operators to efficiently task, organize, deploy, and sustain forces during combat operations or operations other than war. The system will decrease the planning and mobilization time and effort necessary to support a Combatant Commander's mission priorities and objectives. JFRG II is a force multiplier, improving service responsiveness for unit assignment to notional operational plans.</p> <p>***C2150 \$2.3572M of FY06 Funds will be used to Forward Finance FY07 for GCSS</p>		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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	
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.990	0.970	0.950
RDT&E Articles Qty			
MCHS: Environmental testing of CISC/RISC workstations.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.405	0.396	0.517
RDT&E Articles Qty			
MCHS: Environmental testing of CISC/RISC servers.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.250
RDT&E Articles Qty			
AIT: Development of software with AIT capabilities in conjunction with the DOD AIT implementation plan.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	13.728	10.365	27.351
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.439	3.341	4.095
RDT&E Articles Qty			
GCSS-MC Logistics Command and Control: Program/Engineering support, analysis, integration, development, testing, and enhancements for blocks one (1) through three (3).			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.716	0.680	0.488
RDT&E Articles Qty			
Transportation System Portfolio : Conduct operational test and evaluation of TC-AIMS II per JPMO schedule. Supports the development and sustainment of Joint/Multi-Service transportation and distribution systems.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	1.601	1.660
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.			
(U) Total \$	17.278	17.453	35.311

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Systems Dev		0206313M Marine Corps Communications Systems			C2510 MAGTF CSSE & SE				
(U) PROJECT CHANGE SUMMARY:		FY 2005	FY 2006	FY 2007					
(U) FY 2006 President's Budget:		17.829	17.724	21.273					
(U) Adjustments from the President's Budget:									
(U) Congressional Program Reductions									
(U) Congressional Rescissions									
(U) Congressional Increases									
(U) Reprogrammings		-0.122							
(U) SBIR/STTR Transfer		-0.418							
(U) Minor Affordability Adjustments		-0.011	-0.271	14.038					
(U) FY 2007 President's Budget:		17.278	17.453	35.311					
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See Above.									
(U) Schedule: GCSS-MC Schedule Slip.									
(U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
PMC BLI 464100 MAGTF CSSE & SE: TSP	1.340	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.340
PMC BLI 463000 CCR: MCHS Svrs/Wkstns	57.927	39.542	57.380	67.386	87.131	72.175	60.787	Cont	Cont
PMC BLI 461400 GCSS: GCSS	1.488	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.488
PMC BLI 461700 COMBAT SPT SYS: GCSS	0.000	12.161	0.000	8.336	3.286	4.001	7.624	Cont	Cont
PMC BLI 461400 GCSS: AIT	3.584	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.584
PMC BLI 461700 COMBAT SPT SYS: AIT	0.000	7.539	9.736	12.865	13.280	9.171	10.226	Cont	Cont
(U) Related RDT&E: Not Applicable.									

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
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) D. ACQUISITION STRATEGY:</p> <p>Transportation Systems Portfolio: Support the development and sustainment of Joint/Multi-Service transportation and distribution systems.</p> <p>Marine Corps Hardware Suites (MCHS): To insure computer hardware in the operating forces keeps pace with industry computer hardware technical improvements.</p> <p>GCSS-MC is a portfolio of systems. The approach is to enable Marine Corps Logistics Modernization through two main programs, Logistics Chain Management (LCM) and Logistics Command and Control (Log C2). Each program will pursue an evolutionary acquisition (EA) strategy in order to field operationally suitable and supportable capabilities in the shortest time possible. EA offers the fastest method to field this highest of Advocate priorities and allows for requirements to be time-phased as the users become more familiar with the fielded systems' strengths and weaknesses. In addition to quicker fielding, an EA approach is particularly well suited to software intensive programs and offers these benefits: rapidly delivers an initial capability with the explicit intent of delivering continuously improved capability in the future and reduces "cycle time" from identification of emergent user requirements, priorities and fielding. The GCSS-MC acquisition strategy for each program will be to deliver capabilities in Blocks. Each Block is divided into two main phases: Planning/Blueprinting and Realization/Transition. More substantial software improvement/system upgrades will be fielded with each Block, as required and prioritized by the user community. Blocks will include eme Each Block will repeat the complete acquisition program cycle starting with MS A for the first Block for LCM and Milestone B thereafter going through a Milestone C/FRPDR for each Block. LCM is an ACAT 1AM program and Log C2 is an ACAT III or IV. LCM has passed MS A. The tentative date are for LCM MS B is during the 3rd quarter FY05 and MS C during the 4th quarter FY06, with fielding to begin in the latter part of FY06 with continued block upgrades thereafter. FOC is validated when all Marine Corps ground components are using capabilities provided by GCSS-MC LCM to include formal schools, and selected Marine Reserve Components and the following systems are no longer used operationally: SASSY, ATLASS II+, ATLASS I, MIMMS, and PC MIMMS.</p> <p>Joint Forces Requirement Generation II (JFRG II) : JFRG II develops to 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>(U) E. MAJOR PERFORMERS:</p> <p>Transportation Systems Portfolio</p> <p>FY06 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Stanley Associates (MDSS II), Army (AALPS), SDDC (ICODES), ANTEON (AMS-TAC and CMOS) Dec 05</p> <p>FY07 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Stanley Associates (MDSS II), Army (AALPS), SDDC (ICODES), ANTEON (AMS-TAC and CMOS),Dec 06</p> <p>MCHS</p> <p>FY05 - NWSC, Crane, IN, Environment testing of servers and workstations, Jan 2005.</p> <p>FY06 - Spawar, Charleston, SC Environmental testing of servers and workstations Jan 2006.</p> <p>FY07 - SpaWar, Charleston, SC Environmental testing of servers and workstations Jan 2007</p> <p>GCSS</p> <p>FY05 - Contracting information will be determined at a later date.</p> <p>Joint Forces Requirement Generation II (JFRG II) :</p> <p>FY06 CSC/BBN Tech (Software Developers). Oct 05</p> <p>FY07 CSC/BBN Tech (Software Developers). Oct 06</p> <p>Automated Information Technology (AIT)</p> <p>FY06 - Contracting information will be determined at a later date.</p> <p>FY07 - Contracting information will be determined at a later date.</p>		

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Exhibit R-3 Cost Analysis					DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDTE, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communications Systems		C2510 MAGTF CSSE S&E							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
Transportation System Portfolio	C/FFP	MCSC, Quantico, VA	0.000	0.516	01/05	0.185	12/05	0.340	12/06	Cont	Cont	
GCSS Logistics Chain Man	FFP/C	MCSC, Quantico, VA	10.465	8.128	12/04	6.365	03/06	21.786	01/07	Cont	Cont	
GCSS Log C2 Systems	TBD	TBD	1.200	0.862	12/04	2.004	03/06	2.457	01/07	Cont	Cont	
JFRG II	RCP	MCSC, Quantico, VA	0.000	0.000		1.601	10/05	1.660	10/06	Cont	Cont	
Subtotal Product Dev			11.665	9.506		10.155		26.243		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
GCSS Logistics Chain Man	TBD	Various	0.000	0.000	01/05					0.000	0.000	
GCSS Log C2 Systems	TBD	TBD	0.000	0.000						0.000	0.000	
AIT	TBD	TBD	0.000	0.000		0.100	01/06	0.250	01/07	Cont	Cont	
Subtotal Support			0.000	0.000		0.100		0.250		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
MCHS	WR	NSWC, Crane Indiana	1.586	1.395	01/05	1.366	01/06	1.467	01/07	Cont	Cont	
Transportation System Portfolio	WR	MCPD	0.200	0.100	01/05	0.205	12/05			0.000	0.505	
Transportation System Portfolio	WR	MCPD	0.100	0.100	01/05	0.150	12/05			0.000	0.350	
Transportation System Portfolio	RCP	ANTEON	0.131			0.140	12/05	0.148	12/06	0.000	0.419	
GCSS Logistics Chain Man			0.000	4.200	01/05	3.000	02/06	4.200	01/07		11.400	
GCSS Log C2 Systems			0.000	0.433	01/05	1.003	03/06	1.228	01/07		2.664	
Subtotal T&E			2.017	6.228		5.864		7.043		Cont	Cont	
Remarks:												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
GCSS Logistics Chain Man			0.000	1.400	01/05	1.000	01/06	1.365	01/07		3.765	
GCSS Log C2 Systems			0.000	0.144	01/05	0.334	01/06	0.410	01/07		0.888	
Subtotal Management			0.000	1.544		1.334		1.775		Cont	Cont	
Remarks:												
Total Cost			13.682	17.278		17.453		35.311		Cont	Cont	

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Exhibit R-4-4a Project Schedule/Detail

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

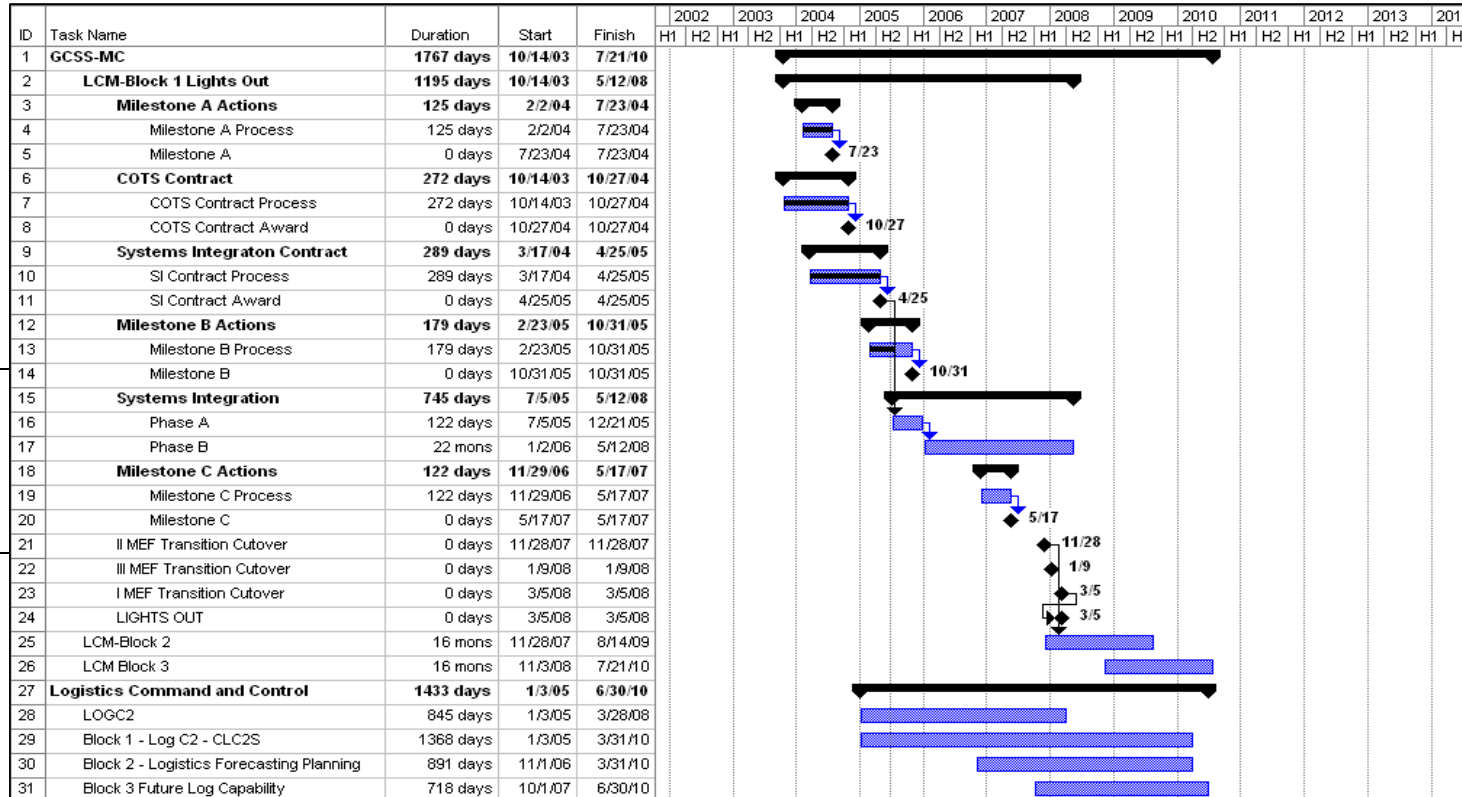
PROJECT NUMBER AND NAME

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

0206313M Marine Corps Communications Systems

C2510 GCSS-MC Modernization

GCSS



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N	15.164	13.706	31.446	17.012	22.234	13.041	21.641	Cont	Cont
(U) PMC BLI 461400 GCSS: GCSS	1.488	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.488
(U) PMC BLI 461700 COMBAT SPT SYS: GCSS	0.000	12.161	0.000	8.336	3.286	4.001	7.624	Cont	Cont

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Exhibit R-4-4a Project Schedule/Detail						DATE: February 2006		
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 Mgmt, Log C2)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
LCM Block 1 - "Lights Out"					2nd Qtr			
MS A Plan	3rd Qtr							
Implementation	1st Qtr ++++++							
DT&E			4th Qtr+++++					
Milestone C - Block 1				3rd Qtr				
II MEF LCM Block 1 Transition/Cutover					1st Qtr			
III MEF "Lights Out"					2nd Qtr			
III MEF "Lights Out"					2nd Qtr			
LCM Block 1 - "Lights Out"/Transition Complete					2nd Qtr			
LCM Block 2 - Enhancements, New Capabilities						4th Qtr		
LCM Block 3							4th Qtr	
Log C2		2nd Qtr ++++++						
Block 1 - Log C2 - CLC2S		2nd Qtr ++++++						
Block 2 - Logistics Forecasting/Planning			1st Qtr ++++++					
Block 3 - Future Log C2 Capability				4th Qtr ++++++				

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 OPERATIONAL SYS DEV		0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		29.761	26.818	55.746	56.418	169.604	66.900	64.338
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
<p>1. The Aviation Radar (AN/TPS-59(V)3) is a national asset. It is the only fielded ground-based sensor which can detect and track long range Air Breathing Targets (ABT) within 300 nautical miles, as well as Tactical Ballistic Missiles (TBM) at ranges of 400 nautical miles for 360 degrees and up to one million feet in elevation. Highly Expeditionary Long Range Air Surveillance Radar (HELRASR) is the modernization initiative to replace the AN-TPS 59 Radar.</p> <p>2. Ground Weapons Locating Radar (GWLR): The GWLR is an up-grade to the current AN/TPQ-46A radar. The system will acquire threat indirect fire weapons including mortars, artillery, rocket and missile systems at greater ranges than the current radar. The principle functions of the system will be to detect, track, classify and accurately determine the origin of enemy weapon platforms and forward the location data to the counterfire element. The upgrades will focus on achievement of greater detection ranges as well as increased communication, security, and system availability.</p> <p>3. The Multi-Role Radar System (MRRS) is also known programmatically as Ground/Air Task Oriented Radar (G/ATOR). G/ATOR is a single material solution to fill the MRRS's and Ground Weapon Locating Radar's (GWLR) (End State) requirements. It is an Evolutionary Acquisition/Incremental Development Program designed to reduce the Total Ownership Costs associated with the MRRS and GWLR systems. Increment I will fill the MRRS's Short Range Air Defense (SHORAD) mission and medium range Air Surveillance mission. Increment II will fill the GWLR's Counter Fire/Counter Battery missions. Increment III will develop tactical enhancements to Increment I's design. Lastly, Increment IV will fill the Air Traffic Control mission. Programmatically, MRRS and GWLR will merge into a single requirement (G/ATOR) as the requirement documents transition from the Op Requirement Document (ORD) format to the Capability Development Document (CDD) format.</p> <p>4. The Short/Medium Range Air Defense Radar AN/TPS-63B is a two-dimensional, medium-range, medium altitude, transportable radar system which is doctrinally employed as a tactical gap-filler or as an early warning system for early deployment into the operational area. It has a 360-degree air surveillance capability at a range of 160 miles and complements the co-employed AN/TPS-59(V)3 three-dimensional, long-range, air surveillance radar system. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system performance with the specific purpose of meeting increased fleet operational requirements. AN/TPS-63 modifications and system improvements will be researched and analyzed to determine which complement existing components to preclude an expensive USMC investment in solid-state radar technology.</p>								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		4.405		1.709		7.832		
RDT&E Articles Qty								
AN/TPS-59 (Sustainment): Develop Engineering Change Proposals for software improvements and Diminishing Manufacturing Sources issues.								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		0.850		0.750		0.750		
RDT&E Articles Qty								
AN/TPS-59 (Sustainment): Contractor service support.								
COST (\$ in Millions)		FY 2005		FY 2006		FY 2007		
Accomplishment/Effort Subtotal Cost		0.180		0.000		0.224		
RDT&E Articles Qty								
HELRASR (Modernization): Perform Risk Mitigation analysis.								

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.010	0.150	0.400
RDT&E Articles Qty			
HELRSR (Modernization): Develop Life Cycle Cost Estimate, System Test Plan..			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.501	0.100	2.800
RDT&E Articles Qty			
HELRSR (Modernization): Acquisition Support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.843	3.250	0.100
RDT&E Articles Qty			
HELRSR (Modernization): System development and demonstration for Risk Mitigation.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	1.328	2.153	0.774
RDT&E Articles Qty			
GWLR: Radar Processor Redesign.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.548	0.389	1.207
RDT&E Articles Qty			
GWLR: AN/TPQ-46A Re-cap/Up-grade.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.060	0.050	0.050
RDT&E Articles Qty			
GWLR: Program office management/travel.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.107	0.200	0.100
RDT&E Articles Qty			
G/ATOR: Contractor Technical, Programmatic, Engineering and Logistics Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	4.048	4.000	4.200
RDT&E Articles Qty			
G/ATOR: Logistics and increment II Studies & Analysis			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.200	0.200	0.900
RDT&E Articles Qty			
G/ATOR: Modeling and Simulation (V & V)			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.180	0.000	1.000
RDT&E Articles Qty			
G/ATOR: Capabilities Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.130	0.400	0.400
RDT&E Articles Qty			
G/ATOR: Risk Management			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.220	0.000	0.000
RDT&E Articles Qty			
G/ATOR: In-house Program Management (Govt Salaries)			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.225	1.250	1.250
RDT&E Articles Qty			
G/ATOR: Program Office Mananagement & Travel Costs			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.141	0.150	0.150
RDT&E Articles Qty			
G/ATOR: RFP Development/Tech. Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.350	0.350	0.350
RDT&E Articles Qty			
G/ATOR: Radar Engineer SME ISO			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.520	0.200	0.200
RDT&E Articles Qty			
G/ATOR: Government Furnished Equipment (GFE)			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.800	0.000
RDT&E Articles Qty			
G/ATOR: Development Engineering/EDM Hardware Production			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	13.212	7.264	17.700
RDT&E Articles Qty			
G/ATOR: Software Requirement Engineering and Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	3.100	15.105
RDT&E Articles Qty			
G/ATOR Testing Evaluation			

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
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 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.120	0.125	0.134
RDT&E Articles Qty			
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Program Management Support			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.083	0.028	0.120
RDT&E Articles Qty			
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Engineering and technical support.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.250	0.000	0.000
RDT&E Articles Qty			
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Feasibility study for the Multi-Level Power Supply.			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.250	0.200	0.000
RDT&E Articles Qty			
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Feasibility study for the Frequency Generator.			
(U) Total \$ (C3099 Radar Systems)	29.761	26.818	55.746
(U) PROJECT CHANGE SUMMARY:			
	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) FY 2006 President's Budget:			
(U) Adjustments from the President's Budget:	51.055	23.741	42.380
(U) Congressional/OSD Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases			
(U) Reprogrammings	-20.057		9.600
(U) SBIR/STTR Transfer	-1.198		
(U) Minor Affordability Adjustment	-0.039	3.077	3.766
(U) FY 2007 President's Budget:	29.761	26.818	55.746
CHANGE SUMMARY EXPLANATION:			
(U) Funding: See Above.			
(U) Schedule: Not Applicable.			
(U) Technical: Not Applicable.			

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006			
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			
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) PMC, BLI#465100, AN/TPS-59 Sustainment	27.277	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.277
(U) PMC, BLI#465000, AN/TPS-59 Sustainment	0.000	5.306	4.576	6.261	6.458	4.887	2.823	Cont	Cont
(U) PMC, BLI#464200, Grnd Weapon Locator Radar	0.832	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.832
(U) PMC, BLI#465000, Grnd Weapons Locating Radar	0.000	5.689	9.784	9.247	2.134	2.548	2.853	Cont	Cont
(U) PMC, BLI#464200, Short/Med Range Radar	1.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.427
(U) PMC, BLI#464200, AN/TPQ-46A	6.850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.850
(U) PMC, BLI#464200, AN/TPQ-63B	1.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.200
(U) PMC, BLI#465000, Short/Medium Range Radar	0.000	0.526	0.436	0.448	0.453	0.407	0.340	Cont	Cont
(U) PMC, BLI#465000,Title IX Radar Set, Firefinder	0.000	18.000	0.000	0.000	0.000	0.000	0.000	0.000	18.000
(U) PMC, BLI#465000, Grnd/Air Task Oriented Radar	0.000	0.000	0.000	0.000	44.706	104.453	113.826	Cont	Cont
(U) PMC, BLI#465100, HELRASR (Modernization)	7.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.500
(U) PMC, BLI#465100, Long Range Radars	16.185	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.185
(U) Related RDT&E:									
(U) PE 0206313M (Marine Corps Communication Systems), Project C2278, Project C2273, and Project C9276.									
(U) PMC, BLI#464200, Short/Med Range Radar									
(U) D. ACQUISITION STRATEGY:									
(U) Highly Expeditionary Long Range Air Surveillance Radar (HELTRASR): The modernization initiative will encompass all 11 AN/TPS-59 radar systems within the Marine Corps inventory. Due to technological advances, evolving threats, mobility issues, changes in employment concepts (Operational Maneuver from the Sea (OMFTS) and Expeditionary Maneuver Warfare (EMW)), interface requirements imposed by developing systems (CAC2S, CEC/CTN and CLAWS) and requirements outlined in the Capstone Requirements Documents (CID, TAMD, GIG, and IDM), the AN/TPS-59(V)3 must undergo modernization. The Acquisition Strategy is based on the recommendations from the Business Case Analysis and two independent modernization studies. The program office started R&D efforts that will incorporate the 3-D Expeditionary Long Range Radar ORD requirements into the current 11 fielded AN/TPS-59(V)3 radars. It is anticipated that this effort will require 9 years of R&D with a separate Development Test (DT)/Operational Test (OT). Forecasted IOC is FY13 with FOC for 11 systems occurring in FY18.									
(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) started in POM 02 initiative, and they will also begin 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 by FY07. Based upon the BCA, the program office intends to sustain systems. The refurbishing and sustaining of systems will enable 3 active units and 2 reserve units to have a system with current technology, extend system life cycle and lower the radars' overall operating cost and maintain the supporting establishment.									
(U) Ground Weapons Locating Radar (GWLR): The GWLR is an upgrade to 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). ECPs will be conducted by the equipment PICA (Army PM Firefinder) with USMC participation. Joint procurement of hardware will realize economy of scale savings and insure 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.									

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
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
<p>(U) G/ATOR: The Ground/Air Task Oriented Radar, formerly known as MRRS, is an Evolutionary Acquisition / Incremental Development Program. G/ATOR is comprised of four Increments which will fill the MRRS' and GWLR's requirements. Four legacy systems (TPS-63, MPQ-62, TPS-73/79 & 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 Increments' System Development & Demonstration (SDD) phases are staggered to allow for technology insertion due to obsolescence & technology growth issues. Early Increment I builds will be back fitted to current then year technology as required. As they become available, Increment III Tactical Enhancements will parallel field to then year Increment I builds and back fitted to earlier builds. A single Eng Development Model (EDM) will be developed during Increment I's SDD phase and flowed down to support later increments.</p> <p>(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.</p> <p>(U) E. MAJOR PERFORMERS:</p> <p>(U) Lockheed Martin Corp, Syracuse, NY. Contract awarded in April 04 for AN/TPS-59 to develop ECPs for software improvements and DMS issues. FY05, FY06, and FY07 project contract with LMC in Jan of each year to develop ECPs for software improvements.</p> <p>(U) Contract with Sensis Corp Projected to be put on contract July 05 to support the HELRASR (AN/TPS-59 system development risk mitigation).</p>		

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Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N/BA-7 OPERATIONAL SYS DEV			0206313M Marine Corps Communication			C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Compl	Total Cost	Target Value of Contract
AN/TPS-59 Sustainment	C/CPFF	Lockheed, Syracuse NY	4.666	4.405	01/05	1.709	01/06	7.832	01/07	Cont	Cont	
HELRSR (Modernization)	RCP	Sensis Corp	0.000	1.010	07/05	3.250	N/A	0.124	N/A	Cont	Cont	
SHORT/MEDIUM RANGE	RCP	Northrop Grumman	0.584	0.500	01/05	0.200	01/06	0.000	N/A	Cont	Cont	
G/ATOR	CPIF	Contractor TBD		13.388	09/05	10.264	04/06	32.700	10/06	Cont	Cont	
G/ATOR (GFE)	MIPR	TBD	0.000	0.000	N/A	0.800	04/06	0.000	N/A	Cont	Cont	
Subtotal Product Dev			5.250	19.303		16.223		40.656		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
GWLR	WR	NSWC, Dahlgren, VA	0.550	1.328	11/04	1.121	11/05	0.305	11/06	Cont	Cont	
GWLR	MIPR	US Army CECOM	0.717	0.195	11/04	0.782	11/05	0.774	11/06	Cont	Cont	
GWLR	WR	MCLB Barstow	0.160	0.138	02/05	0.389	11/05	0.902	11/06	Cont	Cont	
GWLR	WR	NSCW, Crane, IN	0.000	0.215	02/05	0.250	N/A	0.000	N/A	Cont	Cont	
HELRSR (Modernization)	RCP	MCR Federal, MCSC	0.000	0.000	01/00	0.050	04/06	0.000	N/A	0.000	0.050	
HELRSR (Modernization)	WR	MCOTEA, Quantico, VA	0.000	0.000	N/A	0.100	04/06	0.000	N/A	0.000	0.100	
SHORT/MEDIUM RANGE	WR	NSWC, Crane, IN	0.206	0.083	01/05	0.028	01/06	0.120	01/07	Cont	Cont	
G/ATOR (PBL)	C/FFP	EG&G Tech Svc, Dumfries, VA	0.200	0.200	01/05	0.200	01/06	0.900	N/A	Cont	Cont	
G/ATOR (RADAR ENGINEER)	WR	NRL, Washington, DC	0.000	0.424	10/04	0.200	10/05	0.200	10/06	Cont	Cont	
G/ATOR	MIPR	MITRE, Boston, MA	0.000	0.350	10/04	0.350	10/05	0.350	11/06	Cont	Cont	
G/ATOR (RADAR ENGINEER)	WR	NAVAIR-John Lee	0.000	0.105	11/04	0.200	10/05	0.200	10/06	Cont	Cont	
G/ATOR	RCP	MCR Federal, MCSC	0.000	0.007	11/04	0.200	12/05	0.100	10/06	Cont	Cont	
G/ATOR	WR	NSWC-CRANE	0.000	0.520	01/05	0.200	10/05	0.200	10/06	Cont	Cont	
G/ATOR	C/FFP	TBD (Models & Sym)	3.550	0.000		0.000		1.000	10/06	Cont	Cont	
G/ATOR	C/FFP	TBD (RFP DEV)	4.006	0.000		0.000		0.200	10/06	Cont	Cont	
Subtotal Support			9.389	3.565		4.070		5.251		Cont	Cont	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
G/ATOR	MIPR	MCOTEA, Quantico, VA	0.000	0.000		0.325	01/06	0.330	01/07	Cont	Cont	
Subtotal T&E			0.000	0.000		0.325		0.330		Cont	Cont	
Remarks:												

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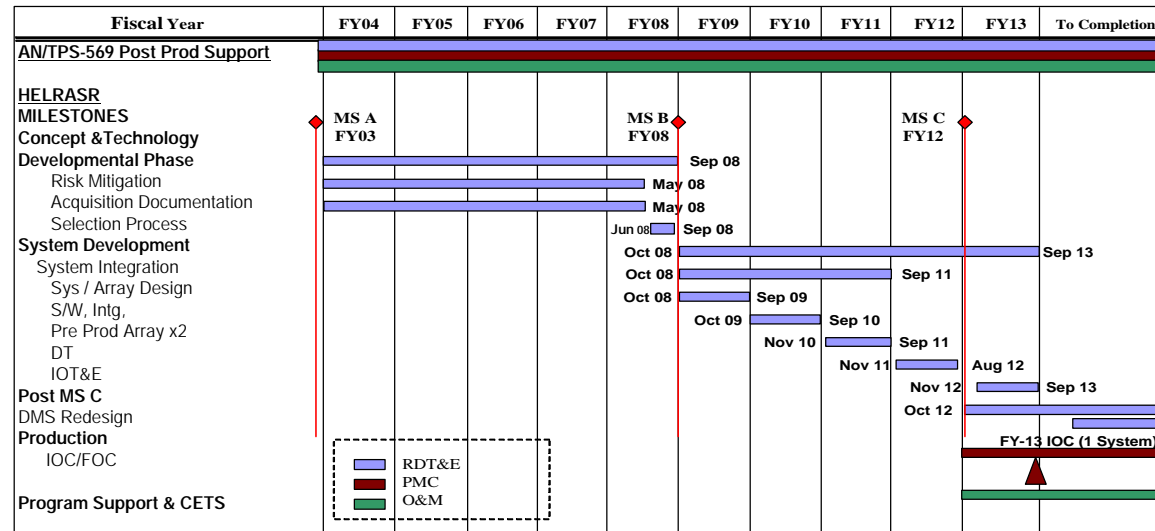
Exhibit R-3 Cost Analysis						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 OPERATIONAL SYS DEV			0206313M Marine Corps Communication			C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
AN/TPS-59 Sustainment	C/CPFF	Anteon, Stafford, VA	3.091	0.850	01/05	0.750	01/06	0.750	01/07	Cont	Cont	
HELRASR (Modernization)	C/CPFF	Anteon, Stafford, VA	0.353	0.501	01/05	0.000	N/A	0.600	N/A	Cont	Cont	
HELRASR (Modernization)	WR	MCSC, Quantico, VA	1.072	1.023	01/05	0.100	09/06	2.800	N/A	Cont	Cont	
SHORT/MEDIUM RANGE	C/CPFF	Anteon, Stafford, VA	0.097	0.105	10/04	0.105	10/05	0.110	10/06	Cont	Cont	
SHORT/MEDIUM RANGE	WR	MCSC, Quantico, VA	0.015	0.015	12/04	0.020	12/05	0.024	12/06	Cont	Cont	
GWLR	WR	MCSC, Quantico, VA	0.126	0.060	10/04	0.050	10/05	0.050	10/06	Cont	Cont	
G/ATOR	RCP	Anteon, Stafford, VA	0.000	3.848	10/04	4.000	10/05	4.000	10/06	Cont	Cont	
G/ATOR (CAPDEV)	RCP	MCCDC, Quantico, VA	0.000	0.130	11/04	0.200	02/06	0.200	10/06	Cont	Cont	
G/ATOR (SALARIES)	MIPR	MCSC, Quantico, VA	0.000	0.220	10/04	0.625	01/06	0.625	01/07	Cont	Cont	
G/ATOR (TAD)	RCP	MCSC, Quantico, VA	0.000	0.141	10/04	0.150	10/05	0.150	10/06	Cont	Cont	
G/ATOR	C/CPFF	TBD (Risk Management)	0.000	0.000	N/A	0.200	03/06	0.200	10/06	Cont		
Subtotal Management			4.754	6.893		6.200		9.509		Cont	Cont	
Remarks:												
Total Cost			19.393	29.761		26.818		55.746		Cont	Cont	

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Exhibit R-4-4a Project Schedule/Detail			DATE:	February 2006
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		



Milestone Schedule AN/TPS-59(V)3 & HELRASR



Program Funding Summary

(APPN, BLI #, NOMEN)

									Compl	Total Cost
(U) RDT&E,N, C2273 AN/TPS-59 Sustainment	2.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.518
(U) RDT&E,N, C3099 AN/TPS-59 (Sustainment)	5.255	2.459	8.582	5.180	5.128	5.529	2.314	Cont	Cont	
(U) RDT&E,N, C3099 HELRASR (Modernization)	2.534	3.500	3.524	7.731	37.123	28.080	20.520	Cont	Cont	
(U) PMC, BLI#465100, AN/TPS-59 (Sustainment)	27.277	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.277
(U) PMC, BLI#465100, AN/TPS-59 (v)3 GWOT	7.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.500
(U) PMC, BLI#465100, LONG RANGE RADARS	16.185	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.185
(U) PMC, BLI#465000, AN/TPS-59 Sustainment	0.000	5.306	4.576	6.261	6.458	4.887	2.823	Cont	Cont	

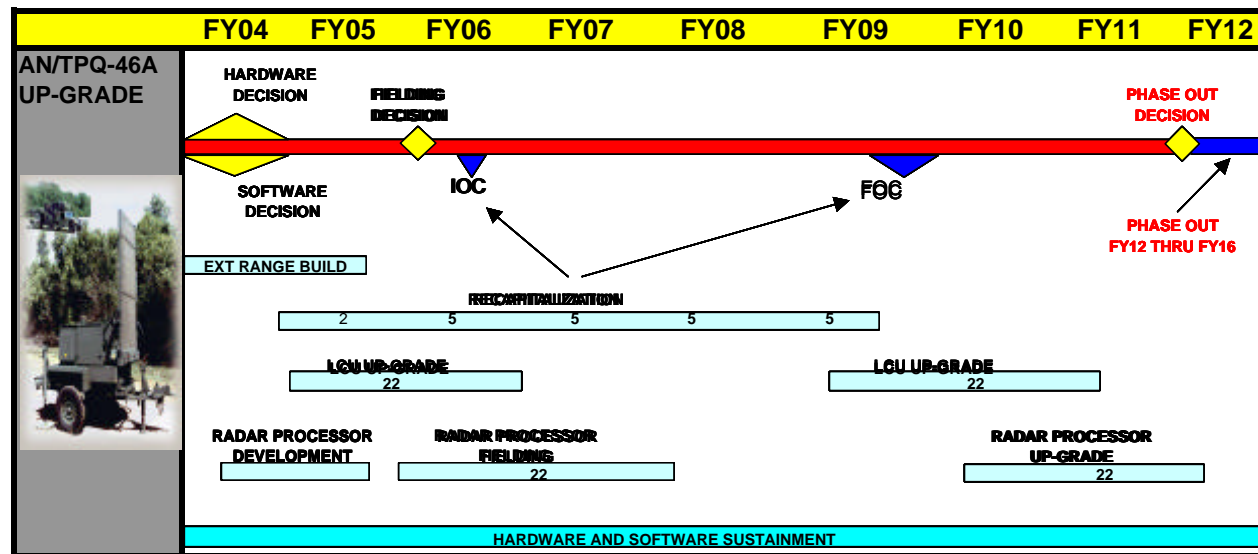
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Exhibit R-4-4a Project Schedule/Detail							DATE:	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME			
RDT&E, N /BA-7 OPERATIONAL SYS DEV		0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS			
		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
AN/TPS-59 Sustainment Schedule		FY 02-----						
HELTRASR (AN/TPS-59 Modernization) Schedule								
Milestone A		FY 03						
Concept & Technology Developmental Phase		FY 03-----4th Q	1st Q-4th Q	1st Q-4th Q	1st Q-4th Q			
Acquisition Documentation			1st Q	1st Q-4th Q	1st Q-3rd Q			
Selection Process			2ND Q	1st Q-4th Q	3rd Q--4th Q			
Milestone B						1st Q		
System Development						1st Q-----		
System Integration						1st Q-----4th Q		
DT								FY 12
IOT&E								FY 13
Milestone C								FY 12
Production								FY 13
IOC								FY 13
FOC								FY 18
Program Support		3rd Q-----						

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Exhibit R-4-4a Project Schedule/Detail		DATE: February 2006
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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N, C3099, GWLR	1.936	2.592	2.031	1.791	1.789	1.832	1.877	Cont	Cont
(U) PMC, BLI#465000, GWLR	0.000	5.689	9.784	9.247	2.134	2.548	2.853	Cont	Cont
(U) PMC, BLI#465000,AN/TPS 63B	1.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
(U) PMC, BLI#464200, GWLR	0.832	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.832

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Exhibit R-4-4a Project Schedule/Detail

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

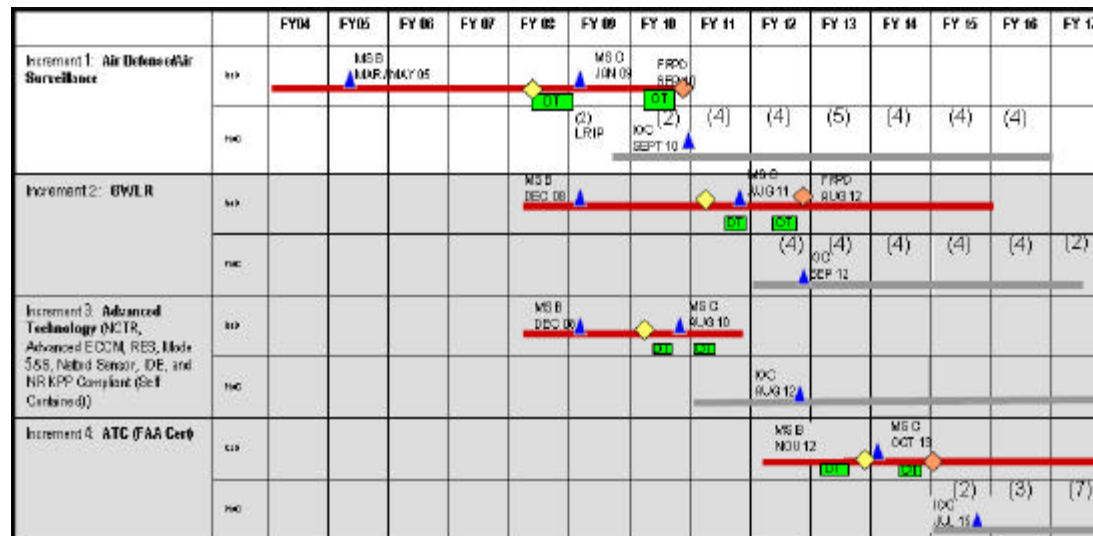
PROJECT NUMBER AND NAME

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

0206313M Marine Corps Communication Systems

C3099 RADAR SYSTEMS

G/ATOR Overall Program Schedule



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N, C3099, G/ATOR

(U) PMC, BLI#465000, G/ATOR

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) RDT&E,N, C3099, G/ATOR	0.000	19.333	17.914	41.355	41.465	125.331	31.240	39.437	316.075
(U) PMC, BLI#465000, G/ATOR	0.000	0.000	0.000	0.000	44.706	104.453	113.826	Cont	Cont

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Exhibit R-4-4a Project Schedule/Detail								DATE:		
								February 2006		
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		3rd Q								
System Development and Demonstration Phase		3rd Q-----	-----3rd Q							
System Integration (EDM)				2nd Q-----	2nd Q					
System Demonstration (DT)			3rd Q-----	-----2nd Q						
Long Lead Items (EDM, LRIP & Production)				3rd Q-----	-----Cont					
Milestone C						2nd Q				
Production Phase						2nd Q -----	-----Cont			
LRIP						2nd Q-----	2nd Q			
IOT&E						2nd--3rd Q				
IOC							4th Q			
Program Support							1st Q-----	-----Cont		
Increment II										
Concept & Technology Developmental Phase					1st Q-----	1st Q				
Milestone B						1st Q				
System Development and Demonstration Phase						1st Q-----	-----4th Q			
System Demonstration (DT)								3rd Q-4th Q		
Long Lead Items							4th Q			
Milestone C								4th Q		
Increment III										
Concept & Technology Developmental Phase					1st Q-----	1st Q				
Milestone B						1st Q				
System Development and Demonstration Phase						1st Q-----	-----4th Q			
System Demonstration (DT)							2ndQ-3rd Q			
Milestone C							4th Q			
Production Phase								1st Q--Cont		
IOT&E								1st-2ndQ		

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communication System		C9999 FY06 Congressional Adds				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011
Project Cost		0.000	27.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:								
COST (\$ in Millions)		FY 2005		FY06		FY07		
Accomplishment/Effort Subtotal Cost		0.000		2.700		0.000		
RDT&E Articles Qty								
<p>Critical Infrastructure Protection Center C2273C - The CIPC has begun to merge three distinct disciplines to ensure appropriate pre-attack, trans-attack, and post-attack operations: Information Operations; Infrastructure Protection; and Emergency Management. Leveraging the substantial capabilities within each of these disciplines permits significant reduction of risk to terrorist exploitation on vulnerabilities in our critical infrastructure and emergency response. The vital element essential to integrating and coordinating the actions within these disciplines is the establishment of Information Sharing and Analysis Centers (ISAC's). The C4ISR challenges to Defense, as well as other Federal, State and Local authorities are how to fuse appropriate and relevant information from vastly disparate stored in a myriad of systems across a global information environment. The CIPC is establishing architectures, processes, and model systems that can be easily reproduced and adapted by local, state and federal organizations involved in information sharing and analysis, civil infrastructure protection, emergency management, and homeland security. The focus of CIPC is to substantially reduce the real risks associated with terrorism by most effectively applying the</p> <p>limited resources available to do so and ensure appropriate interface between defense and civil capabilities.</p>								
COST (\$ in Millions)		FY 2005		FY06		FY07		
Accomplishment/Effort Subtotal Cost		0.000		1.800		0.000		
RDT&E Articles Qty								
<p>Ground//AirTask Oriented Radar G/ATOR C3099C - The G/ATOR program will develop and procure 41 air component radar systems and 22 ground component radar systems. The radar system is a 3-Dimensional, HMMWV-mounted, short to medium range radar designed to detect targets such as cruise missiles, Air Breathing Targets, rockets, mortars and artillery. It is an all-in-one rapidly deployed system that replaces four existing systems with better performance, Combat Identification, reduced logistical footprint, increased mobility and reduces O&M costs through commonality of maintenance concepts and parts. The system will provide supplemental 3-Dimensional radar coverage for those areas out of view of the fielded AN/TPS-59(V)3 Radar system due to terrain masking. The supplemental funding will allow the Marine Corps to begin the development of an additional Engineering Development Model to help mitigate technical risk for Increment II.</p>								
COST (\$ in Millions)		FY 2005		FY06		FY07		
Accomplishment/Effort Subtotal Cost		0.000		3.400		0.000		
RDT&E Articles Qty								
<p>Impv Ground Based Transportable Radar C3099C - The Aviation Radar (AN/TPS-59(V)3) is a national asset. It is the only fielded ground-based sensor which can detect and track long range Air Breathing Targets (ABT) within 300 nautical miles, as well as Tactical Ballistic Missiles (TBM) at ranges of 400 nautical miles for 360 degrees and up to one million feet in elevation. Supplemental funding will be used to develop an Engineering Change Proposal to incorporate National Systems Cueing to improve TBM detection capability.</p>								
COST (\$ in Millions)		FY 2005		FY06		FY07		
Accomplishment/Effort Subtotal Cost		0.000		2.600		0.000		
RDT&E Articles Qty								
<p>MC Composite Tracking Network Eng/Dev 9861N - 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>								

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EXHIBIT R-2a, RDT&E Project Justification			DATE:	
			February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication System	C9999 FY06 Congressional Adds		
COST (\$ in Millions)	FY 2005	FY2006	FY2007	
Accomplishment/Effort Subtotal Cost	0.000	1.000	0.000	
RDT&E Articles Qty				
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.				
COST (\$ in Millions)	FY 2005	FY2006	FY2007	
Accomplishment/Effort Subtotal Cost	0.000	1.500	0.000	
RDT&E Articles Qty				
USMC Battlefield Fusion - Develop an Electronic Warfare Scenario Simulator (EWSS) to modify and edit Electronic Warfare mission scenarios. The EWSS will be used by 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.				
COST (\$ in Millions)	FY 2005	FY2006	FY2007	
Accomplishment/Effort Subtotal Cost	0.000	1.500	0.000	
RDT&E Articles Qty				
MetaData C9276C - Metadata technology incorporates the first data language. It serves as the “brain” and is the enabling component of the Metadata products.. The technology array solves the above-identified problems by: § Commonly defining and modeling data meanings, functions, and relations; § Creating an intelligent database with pre-loaded data conditions and automatically merging new real-time data; § Enabling all data structures to be stored using a finite set of data relations; § Preparing data for a variety of mission specific tool sets; § Delivering a database that can search itself; enabling users to access data in a common way; and § Providing A single database design for all applications.				
COST (\$ in Millions)	FY 2005	FY2006	FY2007	
Accomplishment/Effort Subtotal Cost	0.000	1.000	0.000	
RDT&E Articles Qty				
Radio Bn Info Ops Training C9863N - Funds will be used to establish training efforts associated with electronic warfare simulators. Funds will be used at Electronic Warfare Associates (EWA) MTC Services Corp. and Chesapeake Technologies Inc. (CTI).				
COST (\$ in Millions)	FY 2005	FY2006	FY2007	
Accomplishment/Effort Subtotal Cost	0.000	6.800	0.000	
RDT&E Articles Qty				
Recon, Target & Surveillance Veh RST-V C2273 - 9864N - The RST-V is a 4x4 hybrid electric drvie vehicle with reconnaissance, surveillance, targeting and C3I (command, control, communications and intelligence) capability coupled with integrated stealth and survivability features. The communications systems include an ITT SINCGARS ASIIP VHF transponder and satellite communications.				

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EXHIBIT R-2a, RDT&E Project Justification		DATE:	
		February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication System	C9999 FY06 Congressional Adds	
COST (\$ in Millions)	FY 2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	1.700	0.000
RDT&E Articles Qty			
Remote Tactical Collection & Trans Sys C9865N - The intent is to procure the Swedish system as a gap filler bandwidth provider to the RADBNs. Evaluation of the system will be conducted as a FUE and funding is to support the procurement, bandwidth usage and support structure. RADBN MODS will be assisting in developing a plan of execution. The SWEDISH family of systems comprise a complete suite of 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 Batt HQ and numerous Fly Away, (1.5m system), and Vehicle Based, (.9m system) systems for use during MEU and OIF deployments.			
COST (\$ in Millions)	FY 2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost	0.000	3.000	0.000
RDT&E Articles Qty			
TPS-59 HELRASR Sup Ballistic Miss Def C3099C - Highly Expeditionary Long Range Air Surveillance Radar (HELRASR). HELRASR is the modernization effort to replace the AN/TPS-59(V)3. Funding will support a risk mitigation effort to develop Silicon Carbide Transmit Receive Modules.			
(U) Total \$	0.000	27.000	0.000
(U) PROJECT CHANGE SUMMARY:	FY 2005	FY 2006	FY 2007
(U) FY 2006 President's Budget:	0.000	0.000	0.000
(U) Adjustments from the President's Budget:			
(U) Congressional Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases			
(U) POM 06 Core Adjustment			
(U) Reprogrammings			
(U) SBIR/STTR Transfer			
(U) Minor Affordability Adjustment			
(U) FY 2007 President's Budget:	0.000	27.000	0.000
CHANGE SUMMARY EXPLANATION:			
(U) Funding: See above.			
(U) Schedule: Not Applicable.			
(U) Technical: Not Applicable.			
(U) C. OTHER PROGRAM FUNDING SUMMARY:			
Line Item No. & Name	FY 2005	FY 2006	FY 2007
	FY 2008	FY 2009	FY 2010
	FY 2011	To Compl	Total Cost