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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy **DATE:** February 2012

| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | | | | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | | | | | | | |
|---|----------------|----------------|---------------------|--|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| Total Program Element | 227.604 | 321.623 | 219.054 | - | 219.054 | 200.011 | 162.411 | 97.813 | 99.090 | Continuing | Continuing |
| 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> | 24.739 | 23.810 | 21.119 | - | 21.119 | 33.665 | 28.277 | 27.039 | 24.813 | Continuing | Continuing |
| 2273: <i>Air Ops Cmd & Control (C2) Sys</i> | 52.100 | 67.387 | 94.071 | - | 94.071 | 63.755 | 71.048 | 21.370 | 24.775 | Continuing | Continuing |
| 2274: <i>Command & Control Warfare Sys</i> | 19.071 | 26.091 | 32.052 | - | 32.052 | 35.427 | 17.772 | 15.555 | 15.887 | Continuing | Continuing |
| 2275: <i>Joint Tactical Radio System</i> | 1.850 | 4.964 | 4.413 | - | 4.413 | 25.309 | 9.817 | 3.901 | 6.066 | Continuing | Continuing |
| 2276: <i>Comms Switching and Control Sys</i> | 4.106 | 3.979 | 8.327 | - | 8.327 | 10.336 | 9.295 | 7.759 | 5.103 | Continuing | Continuing |
| 2277: <i>System Engineering and Integration</i> | 5.405 | 9.575 | 6.171 | - | 6.171 | 6.366 | 6.450 | 6.537 | 6.573 | Continuing | Continuing |
| 2278: <i>Air Defense Weapons System</i> | 5.788 | 2.171 | 1.993 | - | 1.993 | 3.210 | 3.407 | 3.421 | 3.491 | Continuing | Continuing |
| 2510: <i>MAGTF CSSE & SE</i> | 32.568 | 43.185 | 25.231 | - | 25.231 | 4.476 | 4.677 | 4.696 | 4.395 | Continuing | Continuing |
| 3099: <i>Radar System</i> | 24.164 | 33.807 | 25.677 | - | 25.677 | 17.467 | 11.668 | 7.535 | 7.987 | Continuing | Continuing |
| 9C89: <i>Marine Ground-Air Radar</i> | 57.813 | 106.654 | - | - | - | - | - | - | - | 0.000 | 164.467 |

A. Mission Description and Budget Item Justification

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

Within this program element, subprojects have been grouped by C2 functional area for more efficient planning. Air defense weapons systems have been added to facilitate planning and a separate project is used for systems assigned to the supporting establishment. Subprojects which support the commander's decision processes have been collected into the Command Post Systems project since these systems must work in close cooperation to ensure effective C2 of Marine Air Ground Task Forces.

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| B. Program Change Summary (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 245.298 | 320.864 | 325.943 | - | 325.943 |
| Current President's Budget | 227.604 | 321.623 | 219.054 | - | 219.054 |
| Total Adjustments | -17.694 | 0.759 | -106.889 | - | -106.889 |
| • Congressional General Reductions | - | -0.741 | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | 1.879 | - | | | |
| • SBIR/STTR Transfer | -5.389 | - | | | |
| • Program Adjustments | - | 1.500 | -115.175 | - | -115.175 |
| • Rate/Misc Adjustments | - | - | 8.286 | - | 8.286 |
| • Congressional General Reductions Adjustments | -1.784 | - | - | - | - |
| • Congressional Directed Reductions Adjustments | -12.400 | - | - | - | - |

Change Summary Explanation

FY13 RDT&E projects decreased \$28M to meet DoD cost saving goals while maintaining cost effective development schedules. Three FY 13 efforts increased as follows: the C2273 Common Aviation Command and Control System (CAC2S) increased \$32.8M for the air combat element (ACE) battle management and control capabilities; the C2274 Ground Based Operational Surveillance System (GBOSS) sensor package system increased \$1M; and, the C2276 Digital Technical Control switch network infrastructure increased \$4.2M.

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| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | PE 0206313M: Marine Corps Comms Systems | | | | 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2270: Exp Indirect Fire Gen Supt Wpn Sys | 24.739 | 23.810 | 21.119 | - | 21.119 | 33.665 | 28.277 | 27.039 | 24.813 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

Advanced Field Artillery Tactical Data System (AFATDS) - The Advanced Field Artillery Tactical Data System (AFATDS) is an automated fire support command and control (C2) system consisting of fire support application software operating on common hardware platforms, which provides the MAGTF with the ability to rapidly integrate all supporting arms assets into maneuver plans via a digital data communications links. The AFATDS program includes AFATDS software and hardware, the Effects Management Tool (EMT) (a C2PC injector), the Back-up Computer System (BUCS), and the Battery Mobile Tactical Shelter (MTS).

Tactical Command Operations System (TCO) - TCO is the principle tool within the Marine Air Ground Task Force (MAGTF) for situational awareness through distribution of the Common Tactical Picture (CTP). It supports tactical operations providing information via high speed computer systems in a timely manner and includes the Intel Operations Workstations/Servers. R&D funds provide science and technology advanced concepts to be applied to the system for an increase in functional capabilities to the warfighter, to include JC2 development efforts within Tactical Service Oriented Architecture (TSOA).

Target Location Designation and Handoff System (TLDHS) - Provides the ability for Forward Observers (FOs) and Forward Air Controllers (FACs) to observe their area of interest, quickly and accurately locate ground targets, receive and display friendly unit information and Fire Support Coordination Measures (FSCMs) on map displays interfaced with C2PC. TLDHS can digitally request and provide digital terminal control for target engagements by field artillery (FA) through AFATDS, close air support (CAS) aircraft, and naval surface fire support (NSFS), and the machine-to-machine interface of the system reduces the potential for fratricide due to human error and by displaying friendly positions and target locations to the terminal controller.

Marine Air Ground Task Force (MAGTF) Command and Control (C2) Systems Applications - MAGTF C2 SA merges the development, integration and testing of 45 existing C2 systems and applications into one common enterprise capability. They reside in all Combat Operations Centers (COCs) and related USMC C2 platforms. This effort provides greater economies of scale/affordability with system developers, technical design agents, integration agents and individual program offices. MAGTF C2 SA efforts are in alignment with the combat developers requirements for: Net-Centric systems, Development of reusable Open Architecture components, Data exposure, Enhancing the war-fighter's Situational Awareness and Increasing/Maximizing the Commander's decision space.

Joint Battle Command - Platform (JBC-P) - will provide a single integrated Joint Blue Force Situational Awareness (JBFSa) capability solution for C2, Position Location Information (PLI), Mapping, Messaging, Overlays, and Routes, as required by Joint Requirements Oversight Council Memoranda 163-04, and 161-03. JBC-P will replace the BFT family of systems.

BFSa/Blue Force Tracker (BFT) - The BFT System is a commercial L-Band satellite-based Tracking and Communication System. USMC was directed to converge to the BFT Family of Systems (FoS) by Joint Requirements Oversight Council (JROC) Memorandum 163-04 direction based on OIF/OEF lessons learned. The BFT FoS

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| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | | | |
| is comprised of the BFT, Mounted Refresh Computer (MRC) and Tactical Operations Center (TOC) Kit. BFT provides the near real time capability to identify vehicle/ squad/rotary aircraft position, track progress, and communicate with other operators of these tactical "platforms" in OIF, OEF, other OCONUS operations and CONUS training for wartime deployment. | | | | | | | |
| Identity Dominance System (IDS) - will provide a user friendly biometric authentication technology that will be employed to deny the enemy freedom of movement within the populace and positively identify known insurgents within an Area of Responsibility (AOR). It will enable Marine Corps and host-nation security personnel to detain, apprehend or deny entry to unwanted individuals in critical areas. The capability will enhance overall Force Protection and High-Value Target Identification by providing a means to rapidly ascertain whether or not a detained individual is wanted for criminal or terrorist activity, badge local workers and support post incident investigation by allowing collected evidence to be compared to available biometrics to identify likely suspects. Specifically, these items will enable enhanced perimeter security for high-visibility events such as national elections on foreign soil; high profile dignitary meetings between U.S. military officials and host nation political and military leaders; and U.S. military demonstrations. This capability will also enable enhanced prisoner management for the efficient administration of detainees, and improve Civil Action of DoD personnel by providing a means to track payments to host-nation workers and managed local labor who support/access facilities where military/ Marines are located. Finally, this capability will enhance available intelligence by allowing "link analysis" on individuals to reveal criminal or terrorist associations not readily apparent when records are reviewed individually. | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Title: *JBC-P: Software Development/Integration. | | | 3.399 | 1.472 | 1.125 | - | 1.125 |
| Articles: | | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: FY11 initiative focused mainly on systems engineering of the next increments of this spiral/incremental acquisition including requirements analysis, documentation review, integration wiht Marine Corps radios and participation in Army-led engineering efforts. Requirements identification/decomposition as well as funding a position in Huntsville, AL to serve as a liaison and integrated team member in the development of the JBC-P Core software. Federally Funded Research Center (FFRDC) software engineering support funded to provide appropriate government direction in design and development of software. Contract support funded to assist and serve as subject matter experts in this effort, as well as SPAWAR in later integration efforts. | | | | | | | |
| FY 2012 Plans: Personnel integrated into the software development team at the Software Engineering Directorate in Huntsville, AL in order to assist in the development and integration of the JBC-P capability. Federally Funded Research Center (FFRDC) software engineering support funded to provide appropriate government direction in design and development of software. Contract support funded to assist and serve as subject matter experts in this effort, as | | | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| well as SPAWAR in later integration efforts. Existing documentation and logistics support will be analyzed for supportability of JBC-P and follow on increments of the capability and if necessary, amended or re-written. | | | | | | |
| FY 2013 Base Plans: Continue personnel integrated into the software development team at the Software Engineering Directorate in Huntsville, AL in order to assist in the development and integration of the JBC-P capability. Federally Funded Research Center (FFRDC) software engineering support funded to provide appropriate government direction in design and development of software. Contract support funded to assist and serve as subject matter experts in this effort, as well as SPAWAR in later integration efforts. Existing documentation and logistics support will be analyzed for supportability of JBC-P and follow on increments of the capability and if necessary, amended or re-written. | | | | | | |
| Title: *JBC-P: Training Development. | | 0.250 | 0.150 | 0.200 | - | 0.200 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Held User juries and updated existing JCR training efforts in support of the evolution to JBC-P. | | | | | | |
| FY 2012 Plans: Evaluate and update existing documentation for re-use as JBC-P evolves. Utilizing Game-like software and Smartphone-like hardware is expected to reduce the amount of user training required for the system. | | | | | | |
| FY 2013 Base Plans: Continue evaluation and updating of existing documentation for re-use as JBC-P evolves. Utilizing Game-like software and Smartphone-like hardware is expected to reduce the amount of user training required for the system. | | | | | | |
| Title: *JBC-P: Developmental Test (DT)/Operational Test (OT) | | 0.500 | 0.250 | 0.200 | - | 0.200 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Test planning and development as well participation and evaluation of s/w and some h/w test events. | | | | | | |
| FY 2012 Plans: Laboratories integrated with Huntsville Software Engineering Division (SED) and MCTSSA in order to facilitate test and network integration test events. | | | | | | |
| FY 2013 Base Plans: | | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Continue laboratories integration with Huntsville Software Engineering Division (SED) and MCTSSA in order to facilitate test and network integration test events. | | | | | | |
| Title: *JBC-P: System Engineering, Programmatic, and Logistics Program Support Articles: FY 2011 Accomplishments: Support personnel and travel. FY 2012 Plans: Support personnel and travel. FY 2013 Base Plans: Support personnel and travel. | | 0.306 0 | 0.307 0 | 0.400 0 | - | 0.400 0 |
| Title: *MAGTF C2: Engineering, research, development, integration and testing support for MAGTF release Articles: FY 2011 Accomplishments: Complete developmental of Service Oriented Infrastructure initial release, complete Information Assurance (IA), and Developmental Testing of the Service Oriented Infrastructure. Integrate into Combat Operations Center (COC) and complete developmental testing. Continue decoupling of services and applications from legacy systems in order to integrate to work with the Service Oriented Infrastructure. complete systems integration and conduct developmental/operational testing. | | 4.516 0 | - | - | - | - |
| Title: *MAGTF C2: Engineering, research, and software development for MAGTF capability release Articles: FY 2011 Accomplishments: Focus of effort is initiating adaptation, development and integration of entity, task and presentation services from multiple programs of record to operate with the Service. Initiated activities to incorporate functionality from the Fires, Logistics and Intelligence communities. Funds support a completion of TSOA Build 2 and 3. FY 2012 Plans: Focus of effort is initiating adaptation, development and integration of entity, task and presentation services from multiple programs of record to operate with the Service. Initiated activities to incorporate functionality from the Fires, Logistics and Intelligence communities. Initiate and build TSOA builds 4 and 5, with development of the MCTSSA hosted Application Environment and new IA services. Builds 4 and 5 introduce the enhanced | | 2.993 0 | 11.595 0 | 7.592 0 | - | 7.592 0 |

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| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Warfighter capability, and include interfaces with other Service SOA efforts, such as System of Systems Common Operating Environment (SOSCOE, Army) and Consolidated Afloat Network and Enterprise Services (CANES, Navy). FY 2013 Base Plans: Focus of effort is initiating adaptation, development and integration of entity, task and presentation services from multiple programs of record to operate with the Service. Initiated activities to incorporate functionality from the Fires, Logistics and Intelligence communities. Initiate and build 6 and 7. Builds 6 and 7 introduce enhanced collaboration and imagery functionality. | | | | | | |
| Title: *MAGTF C2: Program Support. Software engineering program support Articles: | | 1.050 0 | 1.100 0 | 1.100 0 | - | 1.100 0 |
| FY 2011 Accomplishments: Federally Funded Research Center (FFRDC) software engineering support to provide appropriate government direction in design and development of software, conduct of source code reviews and prime vendor oversight. FY 2012 Plans: Federally Funded Research Center (FFRDC) software engineering support to provide appropriate government direction in design and development of software, conduct of source code reviews and prime vendor oversight. FY 2013 Base Plans: Federally Funded Research Center (FFRDC) software engineering support to provide appropriate government direction in design and development of software, conduct of source code reviews and prime vendor oversight. | | | | | | |
| Title: *BFSA: Joint Interoperability Testing Articles: | | 0.056 0 | 0.020 0 | - | - | - |
| FY 2011 Accomplishments: Joint interoperability certification with U.S. Army. FY 2012 Plans: Continue Joint interoperability certification with U.S. Army. | | | | | | |
| Title: *BFSA: Software Development, Integration and Testing Articles: | | 0.868 0 | 3.130 0 | 1.913 0 | - | 1.913 0 |
| FY 2011 Accomplishments: | | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Joint Capability Release (JCR) software testing and integration on USMC unique platforms, software field user evaluation, and installation kit integration evaluation on USMC platforms. FY 2012 Plans: Software and network developmental efforts for USMC specific requirements, software field user evaluations and associated risk reduction events. FY 2013 Base Plans: Continue software and network developmental efforts for USMC specific requirements and associated risk reduction events. | | | | | | |
| Title: BFSA: Software Certification and Accreditation Articles: | | 0.378 0 | 0.140 0 | 0.141 0 | - | 0.141 0 |
| FY 2011 Accomplishments: Information assurance efforts to support certification and accreditation efforts of Joint Capability Release (JCR) software upgrades. FY 2012 Plans: Information assurance efforts to support certification and accreditation efforts of Joint Capability Release (JCR) software upgrades. FY 2013 Base Plans: Information assurance efforts to support certification and accreditation efforts of Joint Capability Release (JCR) software upgrades. | | | | | | |
| Title: *TCO: System testing and integration to develop additional functional capabilities. Articles: | | 2.140 0 | 2.142 0 | 1.194 0 | - | 1.194 0 |
| Description: Hardware upgrade solutions were researched and documented, in preparation for seamless transition to future technology and increased software capability. FY 2011 Accomplishments: Continue developing Registration and Orchestration Capability Modules (CM). FY 2012 Plans: Execute Proof of Concept /backwards compatability Registration and Orchestration Capability Modules (CM). FY 2013 Base Plans: | | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Update Global capability as enhanced Command Operation Picture (COP) service. Integrate and test ability to exchange data with multiple Command and Control (C2) systems. Execute interoperability between Global and modules. | | | | | | | | |
| Title: *TCO: Integrate software changes into new system and perform testing. Articles: | | | | 0.615 0 | 0.482 0 | 0.423 0 | - | 0.423 0 |
| FY 2011 Accomplishments: The Marine Corps will develop Registration and Orchestration Capability Modules (CM) originally signed to and agreed upon by the Marine Corps under the Net Enabled Command Capability (NECC). As part of this FY11 effort, development will use advanced concepts and technologies specifically Tactical Service Oriented Architecture (TSOA). This development will include integration of the advanced concepts and technologies on existing, as well as possible upgraded hardware. FY 2012 Plans: Begin implementation of newly developed concepts and technologies for proof of concept. FY 2013 Base Plans: Continue implementation of newly developed concepts and technologies for proof of concept. | | | | | | | | |
| Title: *TCO: Testing and validations of advanced concepts and technologies. Articles: | | | | 0.557 0 | 1.043 0 | 1.000 0 | - | 1.000 0 |
| FY 2011 Accomplishments: Continue testing as required. FY 2012 Plans: Continue testing as required. FY 2013 Base Plans: Continue testing as required. | | | | | | | | |
| Title: *IDS: System Development and Testing Articles: | | | | 1.050 0 | 0.941 0 | 0.936 0 | - | 0.936 0 |
| FY 2011 Accomplishments: Provided system integration, testing, techical program documentation. FY 2012 Plans: | | | | | | | | |

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| Provide system integration, testing, and technical program development documentation. | | | | | | | | |
| FY 2013 Base Plans: Provide system integration, testing, and technical program development documentation in preparation for Materiel Development Decision. | | | | | | | | |
| Title: *AFATDS: BUCS Software Development and Integration Articles: | | | | 0.200 0 | - | - | - | - |
| FY 2011 Accomplishments: Improvements to data computations for new munitions for EFSS. Communications improvements to incorporate new radios procured by USMC. | | | | | | | | |
| Title: *AFATDS: AFATDS Software Development and Integration Articles: | | | | 3.971 0 | - | 1.459 0 | - | 1.459 0 |
| FY 2011 Accomplishments: Completed development of Increment I capabilities. Implemented AN-PRC117G radio configurations and "Ease-of-Use" features to improve user-interface. | | | | | | | | |
| FY 2013 Base Plans: Limited AFATDS software and interface enhancements. Limited interoperability testing with JTCW software. | | | | | | | | |
| Title: *TLDHS: Software Development Articles: | | | | 0.677 0 | 0.526 0 | 1.672 0 | - | 1.672 0 |
| FY 2011 Accomplishments: Development of TLDHS software | | | | | | | | |
| FY 2012 Plans: Continue the development of TLDHS software | | | | | | | | |
| FY 2013 Base Plans: Continue the development of TLDHS software | | | | | | | | |
| Title: *AFATDS: Information Assurance Support Articles: | | | | 0.900 0 | - | 0.500 0 | - | 0.500 0 |
| FY 2011 Accomplishments: | | | | | | | | |

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| Conducted Information Assurance Certification and Accreditation activities to ensure confidentiality, integrity, and availability of AFATDS/BUCS S/W as well as obtain/maintain Authority to Operate (ATO) and Authority to Connect (ATC) to the Marine Corps Enterprise Network (MCEN).. | | | | | | |
| FY 2013 Base Plans: Continue Information Assurance Certification and Accreditation activities to ensure confidentiality, integrity, and availability of AFATDS/BUCS S/W. | | | | | | |
| Title: *TLDHS: Testing and Evaluation Articles: | | 0.009 0 | 0.108 0 | 0.472 0 | - | 0.472 0 |
| FY 2011 Accomplishments: Performed TLDHS software and hardware testing and testing of NEW, SDB, AODB and TBMCS, Link 16, VMF, DACAS Block I message and Short Range Tomahawk software with TLDHS software for interoperability and safety compliance. | | | | | | |
| FY 2012 Plans: Continue to perform TLDHS software and hardware testing and testing of NEW, SDB, AODB and TBMCS, Link 16, VMF, DACAS Block II messaging with TLDHS software for interoperability and safety compliance. | | | | | | |
| FY 2013 Base Plans: Continue to perform TLDHS software and hardware testing and testing of NEW, SDB, AODB and TBMCS, Link 16, VMF, DACAS Block II messaging with TLDHS software for interoperability and safety compliance. | | | | | | |
| Title: TLDHS: Integration Articles: | | 0.009 0 | 0.108 0 | 0.472 0 | - | 0.472 0 |
| FY 2011 Accomplishments: Integration efforts for Combat Operations Center (COC), Net Enabled Weapons (NEW), Small Diameter Bomb (SDB), Air Operational Database (AODB) and Theater Battle Management Core Systems (TBMCS), additional Link 16 message, Variable Message Format (VMF), Digital Aided Close Air Support (DACAS) Block I messaging, and Short Range Tomahawk software. | | | | | | |
| FY 2012 Plans: Continues the integration of COC, NEW, SDB, AODB and TBMCS, additional Link 16 message, VMF, and DACAS Block II messaging. | | | | | | |
| FY 2013 Base Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | |
| Continues the integration of COC, NEW, SDB, AODB and TBMCS, additional Link 16 message, VMF, and DACAS Block II messaging. | | | | | | | | | | | |
| Title: TLDHS: Software Oversight and Information Assurance Support | | | | | | 0.295 | 0.296 | 0.320 | - | 0.320 | |
| Articles: | | | | | | 0 | 0 | 0 | | 0 | |
| FY 2011 Accomplishments: Performed software code review prior to testing, certification and accreditation and to obtain authority to operate (ATO) to the Marine Corps Enterprise Network. | | | | | | | | | | | |
| FY 2012 Plans: Continues software code review prior to testing, certification and accreditation and to obtain authority to operate (ATO) to the Marine Corps Enterprise Network. | | | | | | | | | | | |
| FY 2013 Base Plans: Continues software code review prior to testing, certification and accreditation and to obtain authority to operate (ATO) to the Marine Corps Enterprise Network. | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | 24.739 | 23.810 | 21.119 | - | 21.119 | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| • PMC/463300: BFSA | 0.048 | 0.000 | 0.374 | 0.000 | 0.374 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.422 |
| • PMC/463123: JBCP | 0.000 | 1.125 | 11.687 | 0.000 | 11.687 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |
| • PMC/643800: IDS | 0.000 | 1.808 | 0.000 | 0.000 | 0.000 | 1.808 | 5.419 | 6.371 | 0.831 | Continuing | Continuing |
| • PMC/463105: BFSA | 23.586 | 88.583 | 6.927 | 0.000 | 6.927 | 42.381 | 36.789 | 28.046 | 40.900 | Continuing | Continuing |
| • PMC/463113: TCO | 29.998 | 15.079 | 7.298 | 0.000 | 7.298 | 8.194 | 9.970 | 6.980 | 6.769 | Continuing | Continuing |
| • PMC/463117: TLDHS | 5.122 | 7.093 | 4.823 | 0.000 | 4.823 | 4.224 | 4.151 | 2.223 | 0.000 | Continuing | Continuing |
| • PMC/463118: AFATDS | 11.346 | 2.487 | 2.545 | 0.000 | 2.545 | 20.920 | 25.083 | 2.728 | 2.791 | Continuing | Continuing |
| • PMC/463000: TCO | 0.000 | 0.229 | 0.176 | 0.000 | 0.176 | 1.716 | 0.000 | 0.175 | 1.661 | Continuing | Continuing |
| D. Acquisition Strategy | | | | | | | | | | | |
| TLDHS: The acquisition of components (software/hardware) for the TLDHS initiative will maximize the use of existing COTS, GOTS, NDI and GFE. Software development is conducted utilizing a sole source small-business contract. Software must maintain compatibility with 5 POR and 7 Operational Flight Programs (OFP). | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> |
| <p>AFATDS: AFATDS is a Cost Plus Award Fee contract through Army CECOM, Aberdeen Proving Ground, MD. R&D efforts will be a combined effort between the software developer (Raytheon), the Army PM and the USMC of software enhancements for the next planned versions of AFATDS.</p> <p>TCO: Contracting is done with various vendors for software test and integration, COTS evaluation and documentation to develop advanced concepts and additional functional capabilities. The PMO conducts quarterly performance reviews. Specific hardware is also procured for test purposes which include environmental, shock, compatibility and interoperability testing.</p> <p>MAGTF C2 SA: MAGTF C2 SA is delivering command and control capabilities through bi-annual software releases (with major releases in FY11, FY13, and FY15) through multiple programs of record. Currently the initial focus is developing the Tactical Service Oriented Architecture (TSOA) software, which provides a common software infrastructure through which services and applications from other programs of record can begin the process of interfacing with in order to maximize software commonality across echelons and missions. The long term goal is a software capability that will enable data discovery and data sharing across mission areas, a common standards-based viewer, core services and applications, and access to the GIG and other Joint networks, data and services.</p> <p>BFSA: The BFT FoS is leveraging an Army (PM Force Battle Command XXI Brigade and Below (FBCB2)) ACAT 1C program to deliver a critical battlefield command and control system to the operating forces. These systems operate on both a terrestrial and celestial network and enable tactical units to move more effectively by providing friendly unit identification and location, as well as friendly intent and status. The current focus is on testing and evaluating improved software which will make possible type-1 encryption and a greater bandwidth network. The long term goal is a secured reduced latency system that will greatly improve the battlefield commander's situational awareness and reduce the potential of fratricide.</p> <p>JBC-P: The JBC-P is leveraging the Army's (PM Force Battle Command XXI Brigade and Below (FBCB2)) development of the JBC-P software and the Marine Corps' program is contingent upon the Army's development and acquisition strategy. PM FBCB2 will fund research and development for JBC-P unless there are Service unique requirements, which the Marine Corps program office will fund. The Marine Corps' program office will participate in all design and readiness reviews and a joint operational testing events.</p> <p>Identity Dominance System (IDS): Currently, the IDS is leveraging off the Army's development of a DoD interoperable materiel solution and the Marine Corps' program is contingent upon the Army's acquisition strategy. The Marine Corps' program office will participate in all design and readiness reviews and as well as the IOT&E activities. The long-term goal is to equip the Marine with a user-friendly biometric authentication technology that will be employed throughout DoD to deny the enemy freedom of movement within the populace and positively identify known insurgents within an Area of Responsibility (AOR).</p> <p><u>E. Performance Metrics</u> Milestone Reviews</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
|--|------------------------|------------------------------------|------------------------|--|------------|-----------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| TLDHS | C/CPFF | Stauder Tech:St. Louis, MO | 14.966 | 0.659 | Jan 2012 | 2.311 | Jan 2013 | - | | 2.311 | Continuing | Continuing | Continuing |
| AFATDS | C/CPAF | Raytheon:Fort Wayne, IN | 22.958 | - | | 1.459 | Jan 2013 | - | | 1.459 | Continuing | Continuing | Continuing |
| C2PC | C/CPIF | NGMS:San Diego | 16.173 | - | | - | | - | | - | 0.000 | 16.173 | |
| MAGTF C2 | C/CPIF | NGMS:San Diego | 12.212 | - | | - | | - | | - | 0.000 | 12.212 | |
| MAGTF C2 | MIPR | SPAWAR:Charleston, SC | 30.730 | 5.628 | Nov 2011 | 3.457 | Nov 2012 | - | | 3.457 | Continuing | Continuing | Continuing |
| MAGTF C2 | WR | NSWC:Panama City, FL | 0.460 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| MAGTF C2 | C/CPFF | GD:Scottsdale, AZ | 18.160 | - | | - | | - | | - | 0.000 | 18.160 | |
| MAGTF C2 | C/CPFF | Viecore:NJ | 0.402 | - | | - | | - | | - | 0.000 | 0.402 | |
| MAGTF C2 | C/CPFF | MCSC:Quantico, VA | 7.094 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| MAGTF C2 | C/CPFF | TBD:TBD | 1.500 | 3.787 | Dec 2011 | 2.235 | Dec 2012 | - | | 2.235 | 0.000 | 7.522 | |
| MAGTF C2 | WR | NSWC:Dahlgren, VA | - | 1.000 | Dec 2011 | 1.100 | Dec 2012 | - | | 1.100 | 0.000 | 2.100 | |
| BFSA | MIPR | CECOM:Aberdeen Proving Grounds, MD | 1.003 | 2.980 | Feb 2012 | 1.903 | Jan 2013 | - | | 1.903 | 0.000 | 5.886 | |
| TCO | MIPR | SPAWAR:Charleston, S.C. | 6.994 | 2.624 | Dec 2011 | 1.617 | Dec 2012 | - | | 1.617 | Continuing | Continuing | Continuing |
| JBC-P | WR | SPAWAR:Charleston, SC | 0.730 | 0.739 | Jan 2012 | 0.708 | Dec 2012 | - | | 0.708 | Continuing | Continuing | Continuing |
| JBC-P | C/FFP | MCSC:Quantico, VA | - | 0.680 | Mar 2012 | 0.500 | Mar 2013 | - | | 0.500 | Continuing | Continuing | Continuing |
| IDS | C/CPFF | MCSC:Quantico, VA | 2.499 | 0.941 | Jun 2012 | 0.936 | Jun 2013 | - | | 0.936 | Continuing | Continuing | Continuing |
| Subtotal | | | 135.881 | 19.038 | | 16.226 | | - | | 16.226 | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| MAGTF C2 | WR | MCTSSA:Camp Pendleton, CA | 1.645 | 0.630 | Oct 2011 | 0.600 | Jan 2013 | - | | 0.600 | Continuing | Continuing | Continuing |
| JBC-P | C/FFP | MCSC:Quantico, VA | 4.237 | 0.120 | Mar 2012 | 0.120 | Mar 2013 | - | | 0.120 | Continuing | Continuing | Continuing |
| AFATDS | C/CPFF | MCSC:Quantico | 1.935 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Subtotal | | | 7.817 | 0.750 | | 0.720 | | - | | 0.720 | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| TLDHS | WR | MCOTEA:Quantico, VA | 1.527 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| TLDHS | WR | MCTSSA:Camp Pendleton, CA | - | 0.025 | Jan 2012 | 0.105 | Jan 2013 | - | | 0.105 | Continuing | Continuing | Continuing |
| TLDHS | WR | SPAWAR:Charleston, SC | 0.069 | 0.179 | Nov 2011 | 0.270 | Dec 2012 | - | | 0.270 | Continuing | Continuing | Continuing |
| TLDHS | Reqn | NSWC:Dahlgren, VA | 0.184 | 0.175 | Jan 2012 | 0.250 | Jan 2013 | - | | 0.250 | Continuing | Continuing | Continuing |
| AFATDS | WR | MCTSSA:Camp Pendleton, CA | 2.431 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| AFATDS | WR | MCOTEA:Quantico, VA | 0.580 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| AFATDS | WR | SPAWAR:Charleston, SC | 2.678 | - | | 0.500 | Dec 2012 | - | | 0.500 | Continuing | Continuing | Continuing |
| TCO | MIPR | SPAWAR:Charleston, SC | 1.232 | 1.043 | Dec 2011 | 1.000 | Dec 2012 | - | | 1.000 | Continuing | Continuing | Continuing |
| MAGTF C2 | WR | MCOTEA:Quantico, VA | 0.757 | 0.100 | Oct 2011 | - | | - | | - | Continuing | Continuing | Continuing |
| MAGTF C2 | WR | MCTSSA:Camp Pendleton, CA | 2.384 | 0.300 | Feb 2012 | 0.200 | Jan 2013 | - | | 0.200 | Continuing | Continuing | Continuing |
| MAGTF C2 | MIPR | JITC:Ft. Huachuca, AZ | 0.400 | 0.150 | Feb 2012 | - | | - | | - | Continuing | Continuing | Continuing |
| BFSA | WR | MCTSSA:Camp Pendleton, CA | 0.374 | 0.100 | Jan 2012 | 0.010 | Jan 2013 | - | | 0.010 | Continuing | Continuing | Continuing |
| BFSA | WR | MCOTEA:Quantico, VA | 1.185 | 0.050 | Jan 2012 | - | | - | | - | Continuing | Continuing | Continuing |

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|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| BFSA | MIPR | DISA:Ft. Huachuca, AZ | 0.050 | 0.020 | Jan 2012 | - | | - | | - | Continuing | Continuing | Continuing |
| BFSA | WR | SPAWAR:Charleston, SC | 4.359 | 0.140 | Jan 2012 | 0.141 | Dec 2012 | - | | 0.141 | Continuing | Continuing | Continuing |
| JBC-P | C/CPFF | MCOTEA:Quantico, VA | 0.250 | 0.170 | Jan 2012 | 0.170 | Dec 2012 | - | | 0.170 | Continuing | Continuing | Continuing |
| JBC-P | WR | MCTSSA:Camp Pendleton, CA | 0.250 | 0.050 | Jan 2012 | 0.050 | Dec 2012 | - | | 0.050 | Continuing | Continuing | Continuing |
| Subtotal | | | 18.710 | 2.502 | | 2.696 | | - | | 2.696 | | | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| MAGTF C2 | MIPR | CECOM/MITRE:Ft Monmouth, NJ | 1.975 | 1.100 | Dec 2011 | 1.100 | Dec 2012 | - | | 1.100 | Continuing | Continuing | Continuing |
| BFSA | C/FFP | MCSC:Quantico, VA | 2.143 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| JBC-P | C/FFP | MCSC:Quantico, VA | 0.361 | 0.120 | Mar 2012 | 0.077 | Mar 2013 | - | | 0.077 | Continuing | Continuing | Continuing |
| JBC-P | MIPR | CECOM/MITRE:Ft Monmouth, NJ | 0.613 | 0.200 | Jan 2012 | 0.200 | Dec 2012 | - | | 0.200 | Continuing | Continuing | Continuing |
| JBC-P | Various | MCSC/Travel:Quantico, VA | 0.040 | 0.100 | Sep 2012 | 0.100 | Sep 2013 | - | | 0.100 | Continuing | Continuing | Continuing |
| Subtotal | | | 5.132 | 1.520 | | 1.477 | | - | | 1.477 | | | |
| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 167.540 | 23.810 | | 21.119 | | - | | 21.119 | | | |
| Remarks | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2270: <i>Exp Indirect Fire Gen Supt Wpn Sys</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|---------------------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2270 | | | | |
| JBC-P MS C | 3 | 2012 | 3 | 2012 |
| JBC-P LRIP Handheld | 1 | 2013 | 1 | 2013 |
| JBC-P FRP DR | 2 | 2013 | 2 | 2013 |
| TCO Hardware Refresh | 1 | 2012 | 1 | 2012 |
| MAGTF C2 SA JTCW 1.1 Release | 1 | 2012 | 1 | 2012 |
| MAGTF C2 SA TSOA IDIQ Contract Award | 1 | 2012 | 1 | 2012 |
| MAGTF C2 SA TSOA Increment 3 Release | 2 | 2012 | 2 | 2012 |
| MAGTF C2 SA TSOA Increment 4 Release | 4 | 2012 | 4 | 2012 |
| MAGTF C2 SA TSOA Increment 5 Release | 2 | 2013 | 2 | 2013 |
| MAGTF C2 SA TSOA Increment 6 Release | 4 | 2013 | 4 | 2013 |
| MAGTF C2 SA MCSRC Initiation | 3 | 2012 | 3 | 2012 |
| AFATDS BC13 (6.8) Development/Testing | 1 | 2012 | 2 | 2012 |
| AFATDS BC15 (6.9) Development/Testing | 3 | 2012 | 1 | 2015 |
| Follow on AFATDS Version Development | 2 | 2015 | 3 | 2017 |
| AFATDS MTS Fielding | 4 | 2011 | 1 | 2014 |
| BFSA JCR Field User Evaluation 1 | 1 | 2011 | 1 | 2011 |
| BFSA JCR Field User Evaluation 2 | 3 | 2011 | 3 | 2011 |
| BFSA JCR Capability FRP/FD | 2 | 2012 | 2 | 2013 |
| TLDHS Major S/W Release 1.2.1.x | 3 | 2012 | 3 | 2012 |
| TLDHS Major S/W Release 1.2.2.x | 1 | 2014 | 1 | 2014 |
| IDS Materiel Development Decision | 4 | 2011 | 4 | 2011 |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2270: Exp Indirect Fire Gen Supt Wpn Sys | |
| | Start | | End | |
| Events by Sub Project | Quarter | Year | Quarter | Year |
| IDS Milestone B | 3 | 2012 | 3 | 2012 |
| IDS Milestone C | 1 | 2016 | 1 | 2016 |
| IDS ILA for MS B | 2 | 2013 | 2 | 2013 |
| IDS Full Rate Production | 2 | 2016 | 2 | 2016 |
| IDS ILA for MS C | 4 | 2015 | 4 | 2015 |
| IDS Fielding Decision | 4 | 2016 | 4 | 2016 |
| IDS JPIv2 Capabilities Development Document | 1 | 2013 | 1 | 2013 |
| IDS IOC | 3 | 2017 | 3 | 2017 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2273: Air Ops Cmd & Control (C2) Sys | 52.100 | 67.387 | 94.071 | - | 94.071 | 63.755 | 71.048 | 21.370 | 24.775 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

Common Aviation Command and Control System (CAC2S) is a coordinated modernization effort to replace the existing aviation command and control equipment of the Marine Air Command and Control System (MACCS) and to provide the Aviation Combat Element with the necessary hardware, software, equipment, and facilities to effectively command, control, and coordinate aviation operations. The CAC2S system will accomplish the MACCS missions with a suite of operationally scalable modules to support the Marine Air Ground Task Force (MAGTF), Joint, and Coalition Forces. The CAC2S integrates the functions of aviation command and control into an interoperable system that will support the core competencies of all Marine Corps warfighting concepts. The CAC2S, in conjunction with MACCS organic sensors and weapons systems, supports the tenets of Expeditionary Maneuver Warfare and fosters joint interoperability. CAC2S Increment I will replace legacy aviation command and control systems in the following Marine aviation agencies: Direct Air Support Center (DASC), Tactical Air Command Center (TACC), and Tactical Air Operations Center (TAOC).

Theater Battle Management Core System (TBMCS) - Joint mandated Air War planning tool for the generation, dissemination and execution of the Air Tasking Order (ATO). TBMCS is an Air Force lead program, which provides the automated tools necessary to manage tactical air operations, execute area air defense and airspace management in the tactical area of operation, and coordinate operations with components of other military services. TBMCS is located at the Tactical Air Command Center (TACC), with remotes located throughout the Marine Air Ground Task Force (MAGTF). It is scalable, allowing for joint, coalition and service specific operations. It is an evolutionary acquisition program.

Composite Tracking Network (CTN) - will provide the Marine Air Ground Task Force (MAGTF) Commander a ground based sensor netting solution that significantly improves situational awareness by correlating sensor measurement data (target position, speed, heading, Identification Friend and Foe (IFF), etc.) from local and remote radars in the Cooperative Engagement Capability (CEC) network, which is then provided to the warfighter in the form of composite, real-time, air surveillance tracks. AN/MSQ-143A (V)I - funding will allow CTN to execute transportability testing and conduct a Field User Evaluation (FUE) of this system configuration. These events will wrap up the Testing for this configuration and allow the CTN Program Office to go to the MDA for a fielding decision for this system configuration. AN/MSQ-143A (V)I MTAOM Interface (USMC AC2 adaptive layer)- funding for this effort will allow CTN to conduct developmental testing of this interface. It will also allow the Program Office to conduct an IV&V of the software baseline that includes this adaptive layer. It will also fund the Follow On Test & Evaluation (FOT&E) of this interface. All of these events will be used by the MDA to make a fielding decision for the interface between CTN and MTAOM.

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).

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> |

Joint Cooperative Target ID Ground (JCTI-G) - The Program was refocused late in FY-11 to reflect the results of a JFCOM led AoA that determined the best path to follow for continued reduction of fratricide incidents. This was to support ongoing Funded and Programmed Capability Improvements (FPCI), supported by USMC Headquarters Capability Development & Integration (HQ CD&I) Branch. The FY12 JCTI-G resources will be applied to systems that will mitigate fratricide and improve operational effectiveness. Twenty four systems have been identified and all are on the Marine Corps' high priority requirement list. These funds will enable these programs to be modified, upgraded, and fielded to meet the current threat and the intent of the JCTI-G Memorandum of Understanding (MOU) between Vice Chief of Staff Army (VCSA) and Assistant Commandant of the Marine Corps (ACMC) dated 14 Jan 2010. This documents the Army and Marine Corps agreement to develop and field systems that will close the fratricide gap associated with the friendly Fires on Dismounts incidences. All of these Programs facilitate the warfighter's positive identification of friendly ground forces, thereby accelerating force sorting and enabling more effective and expeditious tactical decision-making.

Combat Operations Center (COC) AN/TSQ-239 (V)2/3/4 is a deployable, self-contained, modular, scalable and centralized facility which provides digital, shared Command and Control/Situational Awareness functionalities to enhance the Common Operational Picture (COP) for the Command Element, Ground Command Element, Air Combat Element, and Logistics Combat Element. It is a commercial-off-the-shelf integrated hardware solution using unit provided radios, re-hosted tactical data systems, and available Marine Corps prime movers to transport the system. Funds support testing and Information Assurance (IA) certification activities, integration of emerging technology, and On The Move (OTM) capabilities.

Remote Video Viewing Terminal (RVVT) - Provides warfighter with video connectivity to multiple types of aerial platforms (Pioneer, Dragon Eye, Raven B, Shadow, Predator, Fire Scout, and Litening Pod on P-3, AV8-B, and F/A-18). Data is displayed to Regimental Combat Teams and Forward Air Controller operators who coordinate with higher headquarters for fires. Product is intended to fit into the cargo pocket of the uniform in order to reduce the size of the receivers.

Joint Interface Control Office (JICO) Support System (JSS) - will provide net-centric services through a transformational management system to enable internet protocol-based networks of the future to operate efficiently with current tactical networks. It will manage complex tactical networks through an automated toolset and information repository that enables planning, management and analysis of tactical data link communications before, during and after operations.

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|--|------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Title: *JICO Support System: Program Management Support FY 2011 Accomplishments: Program Office travel as an active participant "seat at the table" at USAF to support Increment 2 development. FY 2012 Plans: Program Office travel as an active participant "seat at the table" at USAF to support Increment 2 development. | Articles: | 0.480 0 | 0.497 0 | - | - | - |
| | | | | | | |
| | | | | | | |
| Title: *JCTI-G: Technology Development Articles: | | 2.652 0 | 16.124 0 | - | - | - |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| FY 2011 Accomplishments: Completed the Analysis of Alternatives. Stood up the Joint Program Office (JPO). | | | | | | |
| FY 2012 Plans: Release RFP in support of System Engineering. Prepare for Materiel Development Decision (MDD) and subsequent contract award for Technology Development (TD). Prepare documentation to support Milestone decision. Award TD phase contracts. | | | | | | |
| Title: *JCTI-G: Program Management Support Articles: | | 3.500 0 | 3.600 0 | - | - | - |
| FY 2011 Accomplishments: Supported and completed the Analysis of Alternative that analyzed engineering candidate technologies. Conducted Modeling & Simulation (M&S) Efforts with Army Material Systems Analysis Activity (AMSAA) for the technology development phase. | | | | | | |
| FY 2012 Plans: Continue M&S effort in support of Technology development. Initiate Specification and Request for System Development in support of technology development phase. | | | | | | |
| Title: *JCTI-G: Management Services Articles: | | 1.519 0 | 1.500 0 | - | - | - |
| FY 2011 Accomplishments: Supported and completed the Analysis of Alternatives (AoA) Phase II. Developed Pre MS A documentation. Supported the start up of the Joint Program Office (JPO). | | | | | | |
| FY 2012 Plans: Prepare MS A documentation. Continue JPO support. | | | | | | |
| Title: *COC: Continued Capability Solution Articles: | | 0.695 0 | 5.840 0 | 6.092 0 | - | 6.092 0 |
| FY 2011 Accomplishments: | | | | | | |

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| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Complete Model G design, documentation, and testing. | | | | | | |
| FY 2012 Plans: Complete (V)1 and OTM design, documentation, and testing. | | | | | | |
| FY 2013 Base Plans: Conduct analysis of technologies for integration in COC Baseline. | | | | | | |
| Title: *COC: Test and Evaluation Articles: | | 0.326 0 | 0.350 0 | 0.361 0 | - | 0.361 0 |
| FY 2011 Accomplishments: Funded MCOTEA/JTIC for initial planning of Tactical Service Oriented Architecture (TSOA) testing. | | | | | | |
| FY 2012 Plans: Funded MCOTEA/JTIC for initial planning of (V)1 and OTM testing. | | | | | | |
| FY 2013 Base Plans: Funds MCOTEA/JTIC testing and analysis for COC. | | | | | | |
| Title: *CTN: Engineering Development Model (EDM). Articles: | | 2.147 0 | 2.461 0 | 1.567 0 | - | 1.567 0 |
| FY 2011 Accomplishments: Funds Cooperative Engagement Capabilities (CEC) Wrap Around Simulation Program (WASP) Development. | | | | | | |
| FY 2012 Plans: Funds CEC WASP Accreditation, SW Maintenance Support, Baseline Development. | | | | | | |
| FY 2013 Base Plans: Continue to fund CEC WASP Accreditation, SW Maintenance Support, Baseline Development. | | | | | | |
| Title: *CTN: Certification of Interfaces Articles: | | 1.035 0 | 3.852 0 | 2.255 0 | - | 2.255 0 |
| FY 2011 Accomplishments: Data Collection and Analysis, SW Configuration Management. | | | | | | |
| FY 2012 Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Continue to fund Data Collection and Analysis, SW Independent Validation and Verification (IV&V) in preparation for FOT&E from Sept - Oct 2012. | | | | | | |
| FY 2013 Base Plans: Common Aviation Command and Control System (CAC2S) and Ground/Air Task Oriented Radar (G/ATOR) Testing. | | | | | | |
| Title: *CTN: Program Management Support. | | 0.882 | 0.400 | - | - | - |
| Articles: | | 0 | 0 | | | |
| FY 2011 Accomplishments: MCSC Travel, Technical Services Corporation (TSC) support, Operational Test support, CM support, and SW support. | | | | | | |
| FY 2012 Plans: MCSC Travel, Technical Services Corporation (TSC) support, Operational Test support, and SW support. | | | | | | |
| Title: *MACCS SUSTAINMENT: TAOM, ADCP and CDLS. | | 1.113 | 5.201 | 8.988 | - | 8.988 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Design and prototype modification kits for Commercial Item Technology Refresh for TAOM, SAAWF, TIU and MCIU. | | | | | | |
| FY 2012 Plans: Conduct SFT and field 4 new CDLS to each TACC; test and field ADSI v.15; integrate Mode5/S into the TAOM; monitor the DSAN Life Cycle Support (LCS) contract; and repair/replace MERWS and 3:1 shelters as required. Migrate the TAOM/MTAOM software baseline from CMS to C++. Conduct testing and field software baseline as v. 7.0 | | | | | | |
| FY 2013 Base Plans: MITRE Effort; DSAN Support Contract, TAOC Life Cycle Support Contract, MTAOM Upgrade | | | | | | |
| Title: *RVVT: Preparation of MS C and Full Rate Production and Fielding activities | | 0.437 | 0.739 | 0.589 | - | 0.589 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: | | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Competed for POM 14 funding, sustained legacy remote video terminals, executed fielding of legacy remote video terminals upgrade, planned for Type 1 encryption for legacy remote video terminals, developed and executed Pre-Milestone activities. FY 2012 Plans: Achieved Materiel Development Decision and completed Pre-Milestone activities- developed Life Cycle Cost Estimate, defined Alternative Materiel solutions, defined Exit Criteria, developed Alternative Maintenance and Sustainment Concept, and received Phas A money to complete a BCA in lieu of an Alanysis of Alternatives (AoA). Developed a way ahead to merge efforts with The Target Location Designation and Handoff System (TLDHS) to meet the fleets need of a combined capability to connect to VideoScout Systems to view video feed. Development and testing of the combined capability is currently being conducted. FY 2013 Base Plans: Continuation of FY12 efforts to complete Milestone B and merge efforts with TLDHS. | | | | | | |
| Title: *TBMCS: Program management support. FY 2011 Accomplishments: Program Management support. FY 2012 Plans: Program Management support. FY 2013 Base Plans: Program Management support. | | 0.431 0 | 0.460 0 | 0.500 0 | - | 0.500 0 |
| Title: *TBMCS: Test and Evaluation for TBMCS Upgrades Joint Interoperability. FY 2011 Accomplishments: Test and Evaluation for TBMCS Upgrades Joint Interoperability. FY 2012 Plans: Test and Evaluation for TBMCS Upgrades Joint Interoperability. FY 2013 Base Plans: | | 0.100 0 | 0.122 0 | 2.403 0 | - | 2.403 0 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Test and Evaluation for TBMCS Upgrades Joint Interoperability. | | | | | |
| Title: *CAC2S: Program Management Support. | 1.400 | - | 4.000 | - | 4.000 |
| Articles: | 0 | | 0 | | 0 |
| FY 2011 Accomplishments: Program management support which includes business/financial, engineering and logistical support for Phase 1 and 2 efforts. | | | | | |
| FY 2013 Base Plans: Program management support which includes business/financial, engineering and logistical support for Phase 1 and 2 efforts. | | | | | |
| Title: *CAC2S: Test and Evaluation and Information Assurance Certification. | 1.950 | 2.542 | 3.265 | - | 3.265 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Information Assurance certification test scans and Phase 1 IOT&E efforts. | | | | | |
| FY 2012 Plans: Focus mainly on Information Assurance certification test scans. | | | | | |
| FY 2013 Base Plans: Phase 2 Information Assurance certification test scans. | | | | | |
| Title: *CAC2S: EDM, TR, Gov't DT | 12.541 | 4.742 | 37.824 | - | 37.824 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Designed and Developed Engineering Developmental Models (EDM) for Phase 2, which was accomplished by awarding multiple contracts. Contractors produced a Sensor Data Subsystem prototype and demonstrated to the government. Support integration testing and DT with G/ATOR and AC2. Funds supported activities at NSWC Crane and Dahlgren and many other support activities. | | | | | |
| FY 2012 Plans: | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Once a contractor is selected from the demonstration as described under the FY11 funding, Phase 2 development and integration of the Sensor Data Subsystem continues. Most of the funding will be expended by Phase 2 SDS contractor but will also fund support activities NSWC Crane, Dahlgren and other support activities. FY 2013 Base Plans: Phase 2 development and integration of the Sensor Data Subsystem continues. Four (4) EDM's will be built this year. Most of the funding will be expended by Phase 2 SDS contractor but will also fund support activities at NSWC Crane, Dahlgren and other support activities. | | | | | | |
| Title: *CAC2S: Software development, DT, FUE, OA. Articles: | | 17.570 0 | 14.436 0 | 22.800 0 | - | 22.800 0 |
| FY 2011 Accomplishments: Completed Engineering and Development of the Phase 1 Systems with successful DT and IOT\$E leading to a successful Full Deployment Decision. Support Phase 2 EDM development and successful demonstrations at MCTSSA. FY 2012 Plans: Continue Phase 2 EDM data and information fusion component hardware and software development. FY 2013 Base Plans: Continue Phase 2 EDM data and information fusion component hardware and software development. | | | | | | |
| Title: *CAC2S: Engineering, Management and Logistics Support Articles: | | 3.322 0 | 4.521 0 | 3.427 0 | - | 3.427 0 |
| FY 2011 Accomplishments: Engineering, Management & Logistics Support FY 2012 Plans: Engineering, Management & Logistics Support FY 2013 Base Plans: Engineering, Management & Logistics Support | | | | | | |
| Accomplishments/Planned Programs Subtotals | | 52.100 | 67.387 | 94.071 | - | 94.071 |

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| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2273: Air Ops Cmd & Control (C2) Sys |
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C. Other Program Funding Summary (\$ in Millions)

| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
|----------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| • PMC/464017: CTN | 17.360 | 7.016 | 0.100 | 0.000 | 0.100 | 12.307 | 9.332 | 2.354 | 0.000 | Continuing | Continuing |
| • PMC/464002: MACCS | 37.747 | 17.005 | 23.114 | 0.000 | 23.114 | 10.099 | 2.861 | 0.885 | 0.046 | Continuing | Continuing |
| <i>Sustainment</i> | | | | | | | | | | | |
| • PMC/464003: TBMCS | 5.986 | 6.580 | 3.585 | 0.000 | 3.585 | 4.465 | 3.852 | 4.685 | 3.721 | Continuing | Continuing |
| • PMC/464000: JCTI-G | 1.600 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Continuing | Continuing |
| • PMC/419005: COC | 147.561 | 16.755 | 1.420 | 0.000 | 1.420 | 23.628 | 20.541 | 15.769 | 15.305 | Continuing | Continuing |
| • PMC/464023: RVVT | 5.614 | 2.923 | 0.001 | 0.000 | 0.001 | 4.695 | 5.775 | 6.952 | 14.647 | Continuing | Continuing |
| • PMC/4640008: CAC2S | 42.355 | 15.864 | 0.065 | 0.000 | 0.065 | 20.080 | 29.598 | 67.700 | 43.329 | Continuing | Continuing |
| • PMC/4630000: MACCS | 0.033 | 2.554 | 8.715 | 0.000 | 8.715 | 1.760 | 0.866 | 1.843 | 0.000 | Continuing | Continuing |
| <i>Sustainment</i> | | | | | | | | | | | |

D. Acquisition Strategy

CAC2S will employ an evolutionary acquisition strategy utilizing an incremental and phased approach for development and fielding of the CAC2S. The CPD identifies two increments to achieve the full requirements of CAC2S. The current acquisition strategy addresses Increment I of the CAC2S development process and focuses on the requirements that will modernize the assault and air support, air defense and control, and ACE battle management capabilities of the MACCS. Increment I of the CAC2S will be accomplished through a two phased approach. Phase 1 will address the requirements to establish the baseline CAC2S capabilities for the MACCS and improve AC2 performance and effectiveness. Phase 2 will address the requirements for remaining ACE BMC2 requirements

Theater Battle Management Core Systems (TBMCS) - TBMCS is an ACAT III, 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 delivery order (fixed price) contract. Over the course of the FYDP, the USMC will leverage USAF software support activities vice funding strictly USMC software support.

MACCS SUSTAINMENT - The acquisition strategy implemented by the MACCS Sustainment Program Office is to maintain the readiness, relevance, and capabilities of the portfolio of post-Milestone C systems through Post Deployment Software Support (PDSS) activities, active refresh of obsolete hardware items, and the implementation of system improvements/modifications in accordance with approved systems engineering processes. Engineering changes to the systems make maximum use of Commercial Off-The-Shelf (COTS), Government Off-The-Shelf (GOTS), and Non-Developmental Items (NDI) in order to decrease risk, leverage developed capabilities and support apparatus, and minimize investment expenditures. These activities are performed by Original Equipment Manufacturer (OEM) commercial entities under contract to Marine Corps Systems Command (MCSC) or by Naval Surface Warfare Center (NSWC) Crane as the MACCS Sustainment Program In-Service Engineering Agent (ISEA). The next major milestone for the MACCS Sustainment Programs is Phase-out or Disposal as the replacement Common Aviation Command and Control System (CAC2S) reaches full operational capability.

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| <p>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>JCTI-G - A Technology Development Strategy will be developed in FY12.</p> <p>RVVT - Program Office utilized SSC-LANT to fulfill a competitive acquisition approach to quickly field a capability with limited development. SSC-LANT is currently still in contract negotiations with L-3, expect negotiations to be complete 2 Qtr FY12.</p> <p>COC - The Combat Operations Center (COC) AN/TSQ-239 (V)2/3/4 is the foundation of USMC C2, meeting near term communications and network requirements in OEF and GWOT. There is a continuing developmental effort to evolve the COC into a fully integrated MAGTF C2 capability. FY12 and FY13 supports continual tech refresh, modernization and software upgrade releases.</p> <p><u>E. Performance Metrics</u></p> <p>N/A</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
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| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| CTN | WR | NSWC:Crane, IN | 3.736 | - | | 0.667 | Mar 2013 | - | | 0.667 | 0.000 | 4.403 | |
| CTN | WR | NAVSEA PEO IWS:Washington, DC | 4.495 | 2.461 | Apr 2012 | 0.900 | Apr 2013 | - | | 0.900 | 0.000 | 7.856 | |
| MACCS Sustainment | Reqn | NGES:Woodland Hills, CA | 17.415 | 1.516 | Jun 2012 | 4.042 | Nov 2012 | - | | 4.042 | Continuing | Continuing | Continuing |
| MACCS Sustainment 1 | WR | NSWC:Crane, IN | 1.664 | 1.257 | Nov 2011 | 0.378 | Nov 2012 | - | | 0.378 | 0.000 | 3.299 | |
| COC | WR | SPAWAR:Charleston, SC | 12.267 | 1.224 | Mar 2012 | 1.339 | Oct 2012 | - | | 1.339 | Continuing | Continuing | Continuing |
| COC | Reqn | General Dynamics:Not Specified | 27.811 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| COC | Reqn | Coherent:Johnstown, PA | 0.299 | - | | - | | - | | - | 0.000 | 0.299 | |
| COC | WR | NSWC:Crane, IN | 0.220 | - | | - | | - | | - | 0.000 | 0.220 | |
| COC | C/CPIF | TBD:Not Specified | 0.707 | 4.616 | Jun 2012 | 4.753 | Jun 2013 | - | | 4.753 | 0.000 | 10.076 | |
| JCTI-G | WR | NSWC:Crane, IN | 5.217 | 3.600 | Jan 2012 | - | | - | | - | Continuing | Continuing | Continuing |
| JCTI-G Pax 1 | WR | NAVAIR:Pax River, MD | 0.145 | - | | - | | - | | - | 0.000 | 0.145 | |
| JCTI-G Pax 2 | Reqn | NAVAIR:Pax River, MD | 1.830 | - | | - | | - | | - | 0.000 | 1.830 | |
| JCTI-G Contractor 1 | C/FFP | TBD:TBD | - | 8.336 | Jun 2012 | - | | - | | - | 0.000 | 8.336 | |
| JCTI-G Contractor 2 | C/FFP | TBD:TBD | - | 8.313 | Jun 2012 | - | | - | | - | 0.000 | 8.313 | |
| CAC2S | WR | NSWC:Crane, IN | 22.525 | 0.750 | Oct 2011 | 1.500 | Oct 2012 | - | | 1.500 | 0.000 | 24.775 | |
| CAC2S | C/CPIF | General Dynamics:Quantico, VA | 8.603 | - | | - | | - | | - | 0.000 | 8.603 | |
| CAC2S | C/FFP | Phase 2 Contractor:Quantico, VA | 20.393 | 15.369 | Aug 2012 | 54.991 | Nov 2012 | - | | 54.991 | 0.000 | 90.753 | |
| CAC2S | WR | NSWC:Dahlgren, VA | 25.519 | 5.210 | Nov 2011 | 5.300 | Nov 2012 | - | | 5.300 | 0.000 | 36.029 | |
| CAC2S | MIPR | NAVSEA:Washington, DC | - | 1.252 | Jan 2012 | - | | - | | - | 0.000 | 1.252 | |
| Subtotal | | | 152.846 | 53.904 | | 73.870 | | - | | 73.870 | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| CTN | WR | NSWC:Dahlgren, VA | 0.700 | 0.383 | Jan 2012 | 0.100 | Jan 2013 | - | | 0.100 | 0.000 | 1.183 | |
| CTN | WR | NSWC:PHD | 0.224 | 0.208 | Feb 2012 | - | | - | | - | 0.000 | 0.432 | |
| CTN | WR | NSWC:Crane, IN | 0.400 | - | Feb 2012 | 0.500 | Feb 2013 | - | | 0.500 | 0.000 | 0.900 | |
| CTN | MIPR | MACCS:Quantico, VA | 0.140 | - | | - | | - | | - | 0.000 | 0.140 | |
| CTN | WR | NAVSEA:Wallops Island, VA | 0.316 | 0.300 | Jan 2012 | - | | - | | - | 0.000 | 0.616 | |
| CTN | Various | Travel-TAD:Not Specified | 0.225 | 0.530 | Sep 2012 | 0.500 | Sep 2013 | - | | 0.500 | 0.000 | 1.255 | |
| CTN | WR | SPAWAR:Charleston, SC | 0.435 | - | | - | | - | | - | 0.000 | 0.435 | |
| MACCS Sustainment 1 | WR | NSWC:Crane, IN | 0.089 | - | | 0.300 | Dec 2012 | - | | 0.300 | 0.000 | 0.389 | |
| MACCS Sustainment | Reqn | NGES:Woodland Hills, CA | - | 1.500 | Nov 2011 | 2.485 | Oct 2012 | - | | 2.485 | 0.000 | 3.985 | |
| COC | MIPR | NUWC:Newport, RI | 0.200 | - | | - | | - | | - | 0.000 | 0.200 | |
| JCTI-G | Reqn | Tecolote:Arlington, VA | 2.092 | 0.175 | May 2012 | - | | - | | - | Continuing | Continuing | Continuing |
| CAC2S | WR | Travel-TAD:Not Specified | 1.000 | 0.250 | Oct 2011 | 0.500 | Oct 2012 | - | | 0.500 | 0.000 | 1.750 | |
| CAC2S | WR | NSWC Carderock:Carderock, MD | 0.250 | - | | - | | - | | - | 0.000 | 0.250 | |
| CAC2S | C/CPAF | AMSSA:APG, Mayrland | - | 0.225 | Nov 2011 | 0.225 | Nov 2012 | - | | 0.225 | 0.000 | 0.450 | |
| CAC2S | WR | SPAWAR:Charleston, SC | - | 0.110 | Nov 2011 | 0.200 | Nov 2012 | - | | 0.200 | 0.000 | 0.310 | |
| CAC2S | WR | JITC:Fort Huachuca, AZ | 0.961 | 0.100 | Nov 2011 | 0.200 | Nov 2012 | - | | 0.200 | 0.000 | 1.261 | |
| CAC2S | MIPR | MITRE:Boston, MA | 4.863 | 1.200 | Nov 2011 | 1.500 | Nov 2012 | - | | 1.500 | 0.000 | 7.563 | |
| CAC2S | WR | MACCS-X:Camp Pendleton | 1.564 | - | | - | | - | | - | 0.000 | 1.564 | |
| CAC2S | WR | MCTSSA:Camp Pendleton | 2.606 | 0.500 | Jan 2012 | 0.500 | Nov 2012 | - | | 0.500 | 0.000 | 3.606 | |
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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | |
|--|------------------------|--------------------------------------|------------------------|--|------------|--------------|------------|---|------------|---------------|---------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| CAC2S | WR | NSWC Corona:Corona, CA | 2.903 | 0.900 | Nov 2012 | 1.200 | Nov 2012 | - | | 1.200 | 0.000 | 5.003 | |
| CAC2S | C/FP | BAH:Stafford, VA | 2.003 | - | | - | | - | | - | 0.000 | 2.003 | |
| SIAP | C/FP | RNB Technologies:Stafford VA | 5.374 | - | | - | | - | | - | 0.000 | 5.374 | |
| TBMCS | Various | Travel:Not Specified | 0.050 | 0.026 | Oct 2011 | - | | - | | - | 0.000 | 0.076 | |
| JSS | WR | MCTSSA:Camp Pendleton | 0.183 | 0.183 | Dec 2011 | - | | - | | - | 0.000 | 0.366 | |
| Subtotal | | | 26.578 | 6.590 | | 8.210 | | - | | 8.210 | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| CAC2S | WR | NSWC Port Hueneme:Port Hueneme, CA | - | 0.225 | Nov 2011 | 0.200 | Nov 2012 | - | | 0.200 | 0.000 | 0.425 | |
| TBMCS | C/FFP | Lockheed Martin:Colorado Springs, CO | - | - | | 2.409 | Dec 2012 | - | | 2.409 | 0.000 | 2.409 | |
| CTN | WR | Aberdeen Test Center:Aberdeen, MD | - | 0.150 | Oct 2011 | - | | - | | - | 0.000 | 0.150 | |
| CTN | WR | MCSC CTQ:Quantico, VA | 0.025 | - | | - | | - | | - | 0.000 | 0.025 | |
| CTN | WR | PEO IWS 6:St. Petersburg, FL | 4.017 | 1.141 | Dec 2011 | 0.425 | Sep 2013 | - | | 0.425 | 0.000 | 5.583 | |
| CTN | WR | NSWC Corona:Corona, CA | 1.114 | 0.420 | Feb 2012 | - | | - | | - | 0.000 | 1.534 | |
| CTN | WR | NSWC DD:Dahlgren, VA | 0.942 | 0.320 | Aug 2012 | 0.036 | Sep 2013 | - | | 0.036 | 0.000 | 1.298 | |
| CTN | WR | Fort Huachuca:JITC | 0.008 | - | | - | | - | | - | 0.000 | 0.008 | |

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|--|------------------------|-----------------------------------|------------------------|--|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|--|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2273: Air Ops Cmd & Control (C2) Sys | | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| CTN | WR | MCOTEA:Quantico VA | 1.144 | 0.400 | Jan 2012 | 0.700 | Jan 2013 | - | | 0.700 | 0.000 | 2.244 | | |
| CTN | WR | MCSC:Quantico, VA | 3.876 | - | | - | | - | | - | 0.000 | 3.876 | | |
| CTN | WR | NSWC:Crane, IN | 1.064 | - | | - | | - | | - | 0.000 | 1.064 | | |
| MACCS Sustainment | WR | Aberdeen Test Center:Aberdeen, MD | 0.273 | 0.211 | Nov 2011 | 0.211 | Nov 2012 | - | | 0.211 | 0.000 | 0.695 | | |
| MACCS Sustainment 2 | Various | MCOTEA:Quantico, VA | - | 0.467 | Dec 2011 | 1.272 | Dec 2012 | - | | 1.272 | 0.000 | 1.739 | | |
| MACCS Sustainment 1 | WR | NSWC:Crane, IN | 0.050 | - | | - | | - | | - | 0.000 | 0.050 | | |
| RVVT | WR | SSC-LANT:North Charleston, SC | - | 0.124 | Nov 2011 | 0.043 | Nov 2012 | - | | 0.043 | 0.000 | 0.167 | | |
| COC | MIPR | MCOTEA:Quantico, VA | 0.728 | 0.206 | Mar 2012 | 0.212 | Oct 2012 | - | | 0.212 | 0.000 | 1.146 | | |
| COC | MIPR | JTIC:Not Specified | 0.140 | 0.144 | Mar 2012 | 0.149 | Mar 2013 | - | | 0.149 | 0.000 | 0.433 | | |
| JCTI-G | WR | MCOTEA:Quantico, VA | 0.180 | 0.200 | Nov 2011 | - | | - | | - | Continuing | Continuing | Continuing | |
| TBMCS | WR | MCOTEA:Quantico, VA | 0.560 | 0.120 | Nov 2011 | 0.150 | Nov 2012 | - | | 0.150 | 0.000 | 0.830 | | |
| CAC2S | WR | MCOTEA:Quantico, VA | 6.350 | 0.150 | Nov 2011 | 1.000 | Nov 2012 | - | | 1.000 | 0.000 | 7.500 | | |
| Subtotal | | | 20.471 | 4.278 | | 6.807 | | - | | 6.807 | | | | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| CTN | WR | MCSC:Quantico, VA | 0.882 | 0.400 | Nov 2011 | - | | - | | - | 0.000 | 1.282 | | |
| MACCS Sustainment | C/FFP | MCSC:Quantico, VA | 0.100 | 0.250 | Jan 2012 | 0.300 | Jan 2013 | - | | 0.300 | 0.000 | 0.650 | | |
| COC | Reqn | MCSC:Quantico, VA | 0.057 | - | | - | | - | | - | 0.000 | 0.057 | | |
| COC | Reqn | NGMS:Stafford, VA | 4.053 | - | | - | | - | | - | 0.000 | 4.053 | | |
| JCTI-G | C/FFP | QNA:Stafford, VA | 1.779 | 0.600 | Mar 2012 | - | | - | | - | Continuing | Continuing | Continuing | |
| JCTI-G | C/FFP | MCSC:Quantico, VA | 2.759 | - | | - | | - | | - | Continuing | Continuing | Continuing | |
| RVVT | C/FFP | QNA:Stafford, VA | 0.437 | 0.615 | Feb 2012 | 0.535 | Feb 2013 | - | | 0.535 | 0.000 | 1.587 | | |
| CAC2S | C/FFP | QNA:Stafford, VA | 13.796 | - | | 4.000 | Nov 2012 | - | | 4.000 | 0.000 | 17.796 | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | | | | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | | | | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> | | | | | |

| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
|---|-----------------------------------|---|-------------------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| JSS | WR | Travel TAD:Not Specified | 0.010 | 0.022 | Oct 2011 | - | | - | | - | Continuing | Continuing | Continuing |
| JSS | Reqn | TASC:Stafford, VA | 0.041 | 0.147 | Nov 2011 | - | | - | | - | Continuing | Continuing | Continuing |
| JSS | WR | SPAWAR Chas:Charleston, SC | 0.150 | 0.050 | Dec 2011 | - | | - | | - | 0.000 | 0.200 | |
| JSS | WR | Hanscom AFB:Boston, MA | 0.098 | 0.095 | Feb 2012 | - | | - | | - | 0.000 | 0.193 | |
| TBMCS | C/FFP | QNA:Stafford VA | 1.977 | 0.436 | Nov 2011 | 0.349 | Nov 2012 | - | | 0.349 | 0.000 | 2.762 | |
| Subtotal | | | 26.139 | 2.615 | | 5.184 | | - | | 5.184 | | | |

| | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------------------------|----------------|--|---------------------|--|--------------------|--|----------------------|-------------------------|-------------------|---------------------------------|
| Project Cost Totals | 226.034 | 67.387 | | 94.071 | | - | | 94.071 | | | |

Remarks

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2273: <i>Air Ops Cmd & Control (C2) Sys</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2273 | | | | |
| MACCS Sustainment | 1 | 2011 | 4 | 2014 |
| MACCS - TACC ADSI Software v. 14 | 4 | 2011 | 4 | 2012 |
| MACCS - TACC ADSI Software v. 15 | 2 | 2013 | 2 | 2013 |
| CTN IOC | 2 | 2011 | 2 | 2011 |
| CTN FOC | 1 | 2016 | 1 | 2016 |
| CAC2S Milestone C (completed 1st Qtr FY08; rescinded as of Dec 2009) | 1 | 2011 | 1 | 2011 |
| CAC2S Phase 1 IOT&E | 3 | 2011 | 3 | 2011 |
| CAC2S Phase 1 LDC | 1 | 2012 | 1 | 2012 |
| CAC2S Phase 2 IOT&E | 3 | 2015 | 3 | 2015 |
| CAC2S Phase 2 LDU | 4 | 2014 | 4 | 2014 |
| COC Operational Sustainment | 1 | 2011 | 4 | 2016 |
| COC (V)1 Field User Evaluation (FUE) | 3 | 2012 | 3 | 2012 |

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|--|---------|---------|--------------|--|---------------|---------|---------|--|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2274: Command & Control Warfare Sys | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2274: Command & Control Warfare Sys | 19.071 | 26.091 | 32.052 | - | 32.052 | 35.427 | 17.772 | 15.555 | 15.887 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

COUNTER RADIO-CONTROLLED IMPROVISED EXPLOSIVE DEVICE (RCIED) ELECTRONIC WARFARE (USMC CREW) Systems are modular, programmable, multi-band radio-frequency jammers designed to deny enemy use of selected portions of the radio frequency spectrum to counter Radio-Controlled IEDs. CREW mounted systems are capable of being integrated into all Marine Corps Tactical Ground Vehicles. Increments 2.1 CREW Vehicle Receiver/Jammer (CVRJ) mounted and 3.1 Thor III man portable systems are being fielded to meet current threats in all theaters of operation. The 2.1 mounted systems are being upgraded to a Band C capability beginning in FY11. Increment 3.3 (mounted, dismounted and fixed site) systems shall function as a single integrated system with common architecture that will counter the continued evolution of enemy threats FY13 - FY17. This program is an ongoing effort to develop new techniques, improve capabilities, enhance software and develop waveform load sets to counter evolving threats and prevent technology obsolescence.

GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM (GBOSS). G-BOSS is a ground-based persistent surveillance sensor package with multiple detection and assessment capabilities comprised of four main components: trailer-mounted elevation platform, multi-spectral sensor suite, ground control station and remote ground control station. Daylight color imagery and Infrared imagery (StarSafire III and T-3000), Unattended ground sensors (UGS), Tactical Remote Sensor System(TRSS), Radar (MSTAR), Communication suite Wireless Point to Point Link (WPPL) and Unmanned aerial vehicle interface (VideoScout).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|--|----------------|----------------|---------------------|--------------------|----------------------|
| Title: *USMC CREW - Product Development | 3.808 | 3.508 | 1.575 | - | 1.575 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: In FY11 USMC CREW continued development of waveform/load sets to support the CREW 2.1 CVRJ (mounted), CREW 3.1 Thor III (dismounted) systems and vehicle installation kits (VIKs) for additional vehicle platforms. In addition the program supported the development of waveform/loadsets and VIKs for the CREW 2.1 CVRJ Band C upgrade kits scheduled for procurement in 4th quarter FY11. | | | | | |
| FY 2012 Plans: In FY12 USMC CREW will continue to develop waveform/load sets for the mounted CREW 2.1 CVRJ (V1) and 2.1 CVRJ Band C Upgrade kits (V2); the dismounted CREW 3.1 Thor III; and the Universal Test Sets (UTS) which support each system variant (procured via Joint Improvised Explosive Device Defeat Organization (JIEDDO) and transitioned to USMC for sustainment in FY11). In addition, the program will continue to develop | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2274: Command & Control Warfare Sys | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| vehicle installation kits for the Band C Upgrade in order to support the integration and installation of the upgrade kits into Marine Corps vehicle platform. Lastly, the program will provide support for waveform/loadsets for Marine Expeditionary Unit Special Operations Capable (MEU (SOC)) systems being fielded in FY11 in support of an Urgent Statement of Need dated 17 May 2011. | | | | | |
| FY 2013 Base Plans: In FY13 the USMC CREW program will continue the development of waveform/load sets to support CREW Legacy systems (2.1 CVRJ V1 and V2 mounted and the 3.1 Thor III dismounted systems) and the UTS. In addition, the program will begin the development of waveform/loadsets for the increment 3.3 mounted, dismounted, and fixed site Low Rate Initial Production (LRIP) systems planned for award 4th Qtr FY13 in support of the Enduring Requirement to provide CREW systems to MEU/Marine Expeditionary Force (MEF) within a non-theater specific/non-wartime Operational TEMPO. | | | | | |
| Title: *USMC CREW - Support | 2.806 | 3.848 | 3.772 | - | 3.772 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Systems engineering and integration support required for continued enhancements to the Increment 2.1 (CREW 2.1 CVRJ V1 and Band C V2 mounted) and the 3.1 Thor III dismounted. In addition, support for the transition to the Enduring Requirement with fielding of the CVRJ systems to the Marine Expeditionary Unit (MEU) Special Operations Command (SOC) based upon Statement of Need (SON) dated 17 May 2011. | | | | | |
| FY 2012 Plans: Systems engineering and integration support required for continued system enhancements, for CVRJ with Band C, Thor III, and support for the the Universal Test Sets procured by JIEDDO and transitioned to USMC CREW in FY12. | | | | | |
| FY 2013 Base Plans: Systems engineering and integration support required for the CREW Legacy variants as well as the transition to the JCREW 3.3 mounted, dismounted and fixed site systems scheduled for 4th Qtr FY13. | | | | | |
| Title: *USMC CREW - Test and Evaluation | 1.250 | 1.127 | 1.340 | - | 1.340 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2274: Command & Control Warfare Sys | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Test events in support of enhancements to CREW 2.1 CVRJ (V1), the CVRJ Band C upgrade (V2), and the 3.1 Thor III systems. FY 2012 Plans: FY12 efforts include the required testing to support continued enhancements to CREW 2.1 CVRJ V1, CVRJ Band C (V2), and the 3.1 Thor III systems FY 2013 Base Plans: FY13 efforts encompass the continued test events in support of the CREW Legacy (2.1 and 3.1) systems, the Universal Test Set (UTS) and the transition to the JCREW 3.3 systems beginning 4th Qtr FY13. | | | | | | |
| Title: *USMC CREW - Management Articles: FY 2011 Accomplishments: Program oversight, task scheduling, reports and study analysis. FY 2012 Plans: Program oversight, task scheduling, reports and study analysis. FY 2013 Base Plans: Program oversight, task scheduling, reports and study analysis. | | 0.588 0 | 0.740 0 | 0.801 0 | - | 0.801 0 |
| Title: *GBOSS - Product Development Articles: FY 2011 Accomplishments: Engineered designs for net centric capability (Cross Domain Solution, COC integration and DCGS-MC/DIB interface) and Technology Readiness Assessments, and integration of sensor enhancements per Acquisition Program CDD requirements (sniper detection, Short Wave IR, anomalous activity, etc.). FY 2012 Plans: Continue the Technology Readiness Assessments and integration of sensor enhancements per Acquisition Program CDD requirements (sniper detection, Short Wave IR, anomalous activity, etc.). FY 2013 Base Plans: | | 5.000 0 | 10.025 0 | 13.714 0 | - | 13.714 0 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2274: Command & Control Warfare Sys | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Continue the Technology Readiness Assessments and integration of sensor enhancements per Acquisition Program CDD requirements (sniper detection, Short Wave IR, anomalous activity, etc.). | | | | | |
| <div><div>Title: *GBOSS - Support</div><div>Articles:</div></div> <div><div>FY 2011 Accomplishments:</div><div>Worked Information Assurance (IA) accreditation efforts, IA and software management, and the adjudication of fleet/user change requests and associated engineering for incorporation as system enhancements.</div><div>FY 2012 Plans:</div><div>Continue the IA accreditation efforts, IA and software management, adjudication of fleet/user change requests and associated engineering for incorporation as system enhancements.</div><div>FY 2013 Base Plans:</div><div>Continue the IA accreditation efforts, IA and software management, adjudication of fleet/user change requests and associated engineering for incorporation as system enhancements.</div></div> | | | | | |
| <div><div>Title: *GBOSS - Test and Evaluation.</div><div>Articles:</div></div> <div><div>FY 2011 Accomplishments:</div><div>Worked on testing G-BOSS version upgrades for technology evaluation design validation and CONOPS development.</div><div>FY 2012 Plans:</div><div>Continue testing G-BOSS version upgrades for technology evaluation design validation and CONOPS development.</div><div>FY 2013 Base Plans:</div><div>Continue testing G-BOSS version upgrades and participate in DT testing at Fort Huachuca and Camp Atterbury upgrades for technology evaluation design validation and CONOPS development.</div></div> | | | | | |
| <div><div>Title: *GBOSS - Management.</div><div>Articles:</div></div> <div><div>FY 2011 Accomplishments:</div></div> | | | | | |

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|---|---------|---------|--|----------------|------------------|--|---------------------|---------|-----------------|---------------------|------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | PROJECT 2274: Command & Control Warfare Sys | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Worked CO Site mitigation and system integration support. | | | | | | | | | | | |
| FY 2012 Plans: Provide design oversight, task scheduling, estimate development, reports and test support. | | | | | | | | | | | |
| FY 2013 Base Plans: Provide design oversight, task scheduling, estimate development, reports and test support for the program office. | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | 19.071 | 26.091 | 32.052 | - | 32.052 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| • PMC 6520: USMC CREW | 160.449 | 8.662 | 198.808 | 0.000 | 198.808 | 114.868 | 117.062 | 116.641 | 121.437 | Continuing | Continuing |
| • PMC 6438: GBOSS | 0.000 | 49.682 | 55.500 | 0.000 | 55.500 | 22.487 | 30.271 | 30.256 | 30.810 | Continuing | Continuing |
| • PMC 7000: USMC CREW SPARES | 0.000 | 0.000 | 1.537 | 0.000 | 1.537 | 11.042 | 11.239 | 15.365 | 13.668 | Continuing | Continuing |
| D. Acquisition Strategy | | | | | | | | | | | |
| Counter RCIED Electronic Warfare (USMC CREW). Designated an ACAT II program (Feb 2007). Increment 2.1 mounted and 3.1 dismounted systems provide enhanced protection to combat elements in vehicle platforms and on foot. These systems replace Increment 2.0 (Chameleon and Hunter). Increment 3.3 mounted, dismounted and fixed site systems will replace the 2.1 and 3.1 systems to counter the continued evolution of enemy threats FY13 - 17 in support of the Enduring Requirement (non-theater specific). The program will continue to develop new techniques, improve capabilities, enhance software and develop upgrades to counter evolving threats and prevent technology obsolescence. Activities include waveform development, non-recurring engineering for system enhancements, capability upgrades, and installation kits, integration of the enhancements/Vehicle Installation Kits (VIKs) and the tests/government studies required to support these changes. | | | | | | | | | | | |
| GBOSS. The acquisition approach has been to use existing government contracts (US Navy, US Army, US Air Force) for Commercial-Off-the-Shelf (COTS) and Government-Off-the-Shelf (GOTS) material and services that meet the basic requirements of the UUNS and give priority to materials and services already integrated into an existing or similar architecture. In FY13, the acquisition approach will be to maintain NSWG Crane as the system integrator to leverage their engineering and contracting vehicles for product development and test and evaluation. This approach is the most expeditious to deliver equipment and services to the forces in theater. | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| Milestone Reviews | | | | | | | | | | | |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

| | | |
|---|---|---|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2274: Command & Control Warfare Sys |
|---|---|---|

| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
|--------------------------------------|------------------------|--------------------------------------|------------------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| USMC CREW | SS/FFP | NAVSEA: BALTIMORE, MD | 3.300 | 3.089 | Dec 2011 | 1.146 | Dec 2012 | - | | 1.146 | 0.000 | 7.535 | |
| USMC CREW | WR | SSC-A: CHARLESTON, SC | 0.646 | 0.419 | Dec 2011 | 0.429 | Dec 2012 | - | | 0.429 | 0.000 | 1.494 | |
| GBOSS | WR | NSWC: CRANE, IN | 7.115 | 8.674 | Jan 2012 | 12.214 | Nov 2012 | - | | 12.214 | Continuing | Continuing | Continuing |
| GBOSS | SS/FP | General Dynamics: MULTIPLE LOCATIONS | - | 0.500 | Mar 2012 | 0.300 | Mar 2013 | - | | 0.300 | Continuing | Continuing | Continuing |
| GBOSS | C/CPFF | MCOTEA: QUANTICO, VA | - | 0.051 | Dec 2011 | 0.750 | Dec 2012 | - | | 0.750 | Continuing | Continuing | Continuing |
| GBOSS | WR | NSWC: DAHLGREN, VA | - | 0.500 | Nov 2011 | 0.150 | Nov 2012 | - | | 0.150 | Continuing | Continuing | Continuing |
| GBOSS | MIPR | CECOM: STAFFORD, VA | - | 0.300 | Jan 2012 | 0.300 | Dec 2012 | - | | 0.300 | Continuing | Continuing | Continuing |
| Subtotal | | | 11.061 | 13.533 | | 15.289 | | - | | 15.289 | | | |

Remarks

USMC CREW NAVSEA: FY11 - FY13 CREW will utilize Johns Hopkins University Applied Physics Laboratories to develop waveform load sets for all CREW Increment systems to continue to counter the evolving RCIED Threats.
 USMC CREW SSC-A (SPAWAR, Charleston): FY11 - FY13 CREW will utilize SSC-Atlantic to develop mounting solutions in order to integrate mounted systems into all Marine Corps Vehicle platforms
 GBOSS (NSWC Crane) Systems Integration/Product Development and Systems Engineering Support

| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
|--------------------------|------------------------|--------------------------------|------------------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| USMC CREW | WR | NSWC: DAHLGREN, VA | 0.249 | 1.090 | Jan 2012 | 1.117 | Jan 2013 | - | | 1.117 | 0.000 | 2.456 | |
| USMC CREW | C/FFP | MCSC: QUANTICO, VA | 1.152 | - | | - | | - | | - | 0.000 | 1.152 | |
| GBOSS | WR | SPAWAR: CHARLESTON, SC | - | - | | 0.300 | Jan 2013 | - | | 0.300 | Continuing | Continuing | Continuing |

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|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2274: Command & Control Warfare Sys | | | | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GBOSS | Various | NSWC:CRANE, IN | 2.652 | 1.411 | Nov 2011 | 2.437 | Nov 2012 | - | | 2.437 | Continuing | Continuing | Continuing |
| USMC CREW | WR | NSWC:CRANE, IN | 1.404 | 2.758 | Jan 2012 | 2.655 | Jan 2013 | - | | 2.655 | 0.000 | 6.817 | |
| GBOSS | C/FFP | DEMA:STAFFORD, VA | - | 0.300 | Apr 2012 | - | | - | | - | Continuing | Continuing | Continuing |
| Subtotal | | | 5.457 | 5.559 | | 6.509 | | - | | 6.509 | | | |
| Remarks | | | | | | | | | | | | | |
| USMC CREW MCSC: CEOss Contracts for a Life Cycle Cost Estimate and PM Subject Matter Expertise support USMC CREW NSWC CRANE: On and off-site direct Systems Engineering Support, RF Modeling and Simulation and Independent Verification and Validation (IV&V) support for all Increment Systems USMC CREW NSWC Dahlgren: RADHAZ (Radio Hazard) Studies, Safety and Configuration Management Support | | | | | | | | | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GBOSS | Various | MCOTEA:QUANTICO, VA | - | - | | 0.349 | Dec 2012 | - | | 0.349 | Continuing | Continuing | Continuing |
| USMC CREW | C/CPFF | MCOTEA:QUANTICO VA | 0.283 | 0.287 | Mar 2012 | 0.290 | Mar 2013 | - | | 0.290 | 0.000 | 0.860 | |
| USMC CREW | PO | YPG:YUMA, AZ | 0.967 | 0.840 | Dec 2011 | 1.050 | Dec 2012 | - | | 1.050 | 0.000 | 2.857 | |
| GBOSS | Various | NSWC:CRANE, IN | - | 3.974 | Jan 2012 | 3.500 | Nov 2012 | - | | 3.500 | Continuing | Continuing | Continuing |
| GBOSS | MIPR | CECOM:STAFFORD, VA | - | 0.300 | Jan 2012 | 0.500 | Jan 2013 | - | | 0.500 | Continuing | Continuing | Continuing |
| Subtotal | | | 1.250 | 5.401 | | 5.689 | | - | | 5.689 | | | |
| Remarks | | | | | | | | | | | | | |
| USMC CREW MCOTEA - Provides OT/DT Oversight and support for Increment 3.3 systems (FY11, FY12 and FY13) USMC CREW YPG/EPG - Provides test ranges and results analysis for all increment systems USMC GBOSS - MCOTEA will provide oversight support for testing. NSWC, Crane will provide testing and evaluation per GBOSS CDD requirements. | | | | | | | | | | | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2274: Command & Control Warfare Sys | | | | | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| USMC CREW | C/FFP | MCSC:QUANTICO, VA | 0.588 | 0.740 | Jun 2012 | 0.801 | Jun 2013 | - | | 0.801 | 0.000 | 2.129 | |
| GBOSS | Various | NSWC:CRANE, IN | 4.187 | 0.858 | Dec 2011 | 3.764 | Nov 2012 | - | | 3.764 | Continuing | Continuing | Continuing |
| Subtotal | | | 4.775 | 1.598 | | 4.565 | | - | | 4.565 | | | |
| Remarks USMC CREW MCSC: Provides Program Management Support to USMC CREW Program USMC GBOSS: Program Management Support to USMC GBOSS Program | | | | | | | | | | | | | |
| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 22.543 | 26.091 | | 32.052 | | - | | 32.052 | | | |
| Remarks | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2274: <i>Command & Control Warfare Sys</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2274: <i>Command & Control Warfare Sys</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2274: <i>Command & Control Warfare Sys</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2274 | | | | |
| GBOSS(E) DT | 3 | 2013 | 3 | 2013 |
| GBOSS(E) Operational Testing | 3 | 2014 | 4 | 2014 |
| GBOSS(E) MILESTONE B | 2 | 2012 | 2 | 2012 |
| GBOSS(E) MILESTONE C | 1 | 2014 | 1 | 2014 |
| GBOSS(E) IOC | 3 | 2015 | 3 | 2015 |
| GBOSS(E) FULL RATE PRODUCTION DECISION | 4 | 2014 | 4 | 2014 |
| USMC CREW 2.1 Waveform Development | 1 | 2011 | 4 | 2017 |
| USMC CREW JCREW 3.3 Milestone C | 3 | 2012 | 3 | 2012 |
| USMC CREW 2.1 and JCREW 3.3 Program Support | 1 | 2011 | 4 | 2014 |
| USMC CREW JCREW 3.3 Procurement Decision | 3 | 2013 | 3 | 2013 |

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|--|---------|---------|--------------|--|---------------|---------|---------|--|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2275: Joint Tactical Radio System | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2275: Joint Tactical Radio System | 1.850 | 4.964 | 4.413 | - | 4.413 | 25.309 | 9.817 | 3.901 | 6.066 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

(U) Tactical Satellite Comm Terminal (TSCT) - LIGHTWEIGHT MULTIBAND SATELLITE TERMINAL (LMST)/PHOENIX are quad-band Super High Frequency (SHF) satellite terminals mounted in transit cases and High Mobility Multipurpose Wheeled Vehicles (HMMWVs). With the signing of the SATCOM Collapse (20 May 2011) a dynamic transition will take place to consolidate (3) programs, Lightweight Multiband Satellite Terminal (LMST), Phoenix Tactical SHF Satellite Terminal (TSST), and the Very Small Aperture Terminal Large (VSAT-L) into (1) requirement defined as the Universal Satellite Access Tactical Terminal (UnSATT). RDT&E funding will be utilized to research/integrate Joint IP Modems as mandated by DISA to ensure interoperability during the transition process.

(U) Legacy Communications/Electronics Modifications and Sustainment (LEGACY): 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. The AN/TSQ-227 Digital Technical Control (DTC) is undergoing a major refresh driven by Department of Defense (DoD)/Joint Interoperability Test Command (JITC) mandated interoperability and security requirements, which includes technology insertion and evolutionary equipment improvements as part of the SLEP effort. Additionally, the AN/TRC-170A Troposcatter Communications System is also undergoing a refresh/product improvement which brings the system from 1980s technology to the 21st century. R&D funds are required to certify the antenna replacement, and future funds are required to develop, test, and certify the movement of the current HMMWV-mounted radio shelter into a transit case solution.

(U) Command & Control On-the-move Network, Digital Over-the-horizon Relay (CONDOR): CONDOR capabilities material solution will be a coordinated effort with the Army's WIN-T program. A Marine Corps variant called Networking on the Move (NOTM) is currently being developed. The CONDOR funding line is funding the capability to allow tactical forces extended Beyond Line-of-Sight (BLOS) to maintain situational awareness by extending data network connectivity regardless of distance while on-the-move (OTM).

(U) Networking on the Move (NOTM): Networking-on-the-Move (NOTM) will provide Beyond Line of Sight (BLOS)/Line of Sight (LOS) transmission capability to the operating forces for network connectivity while on the move to enable access to Command and Control (C2) applications, streaming video and collaboration tools. NOTM will also provide remote and dynamic network management to eliminate the burden on end-users and incidental operators to perform technical functions. The NOTM proposed program of record will include vehicle integration kits, capable of being installed on existing and future vehicle platforms. NOTM will also include the software and hardware necessary to provide network management for all levels of the program. NOTM is being developed using an incremental approach where the first increment will provide capabilities to the Marine Expeditionary Unit (MEU) followed by additional capabilities and units. R&D funding will be used to develop the system and conduct development and operational testing to ensure all requirements are met.

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2275: Joint Tactical Radio System | | | | |
| <p>(U) Very Small Aperture Terminal (VSAT) - VSAT provides beyond line-of-sight (BLOS), low-cost satellite communications to MAGTF commands at the Major Subordinate Commands to the Battalion levels. VSAT enables critical voice, video, and data for Command and Control (C2), Fires, Logistics, and Intelligence. VSAT fills a void of BLOS, high bandwidth capability throughout the Marine Air-Ground Task Force (MAGTF). The VSATs are currently Ku-band only, which requires commercial satellite connectivity. Future upgrades will utilize the military's Wideband Global Satellites to save on long-term O&M costs. Research and development work will need to be done to ensure that VSAT can transition from Ku to Ka-band.</p> <p>Additionally, SATCOM Joint Interoperability as defined in Mil-Std-188-165B and DoD Policy "Transmission of Internet Protocol (IP) over DoD-Leased and DoD-owned transponded Satellite Communications Systems" of 10 Feb 06, is driving the requirement to update the VSATs. The Mil-Std and DoD policy deal with Satellite RF Modem Interoperability and require modems with Transmission Security (TRANSEC) and IP capabilities, respectively. R&D funds are needed to perform the development, test, and certification of terminal configurations that support these requirements. The Capabilities Production Document identifies the need for a lighter, more mobile satellite terminal for all echelons. This fact, coupled with the cancellation of the HC3 program, is driving the need to reduce terminal weight and to add X-band capability.</p> <p>(U) Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T): SMART-T provides tactical users with protected data and voice via Extremely High Frequency (EHF) satellite communications. The SMART-T system is transported on High Mobility Multipurpose Wheeled Vehicles (HMMWVs), providing MAGTF Commanders a secure, survivable, long-haul, low/medium data rate communications link not subject to terrain masking and horizon limitations. The SMART-T is also capable of operation when removed from the HMMWV. SMART-T will be undergoing an upgrade to be interoperable with the new Advanced Extremely High Frequency (AEHF) constellation and will require certification testing and a Multi-service Operational Test and Evaluation (MOT&E).</p> <p>(U) Tactical Communications Modernization (TCM): - Next generation solutions for the Warfighter due to urgent communications requirements and JTRS schedule delays.</p> <p>- Represents procurements through the FYDP supporting the next generation IISR, wideband THHR, and AN/MRC-145 service life extension program</p> <p>- RDTE funding is required to determine the optimal solution for the AN/MRC-145 service life extension program</p> | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Title: TCM - Next Generation IISR, Wideband THHR and AN/MRC-145 SLEP Articles: | | - | 0.440 0 | 0.562 0 | - | 0.562 0 |
| FY 2012 Plans: Next generation solutions for the Warfighter due to urgent communications requirements and continuing JTRS schedule delay - Represents procurements through the FYDP supporting the next generation IISR, wideband THHR, and AN/MRC-145 service life extension program - RDTE funding is required to determine the optimal solution for the AN/MRC-145 service life extension program | | | | | | |
| FY 2013 Base Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2275: Joint Tactical Radio System | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Next generation solutions for the Warfighter due to urgent communications requirements and continuing JTRS schedule delay - Represents procurements through the FYDP supporting the next generation IISR, wideband THHR, and AN/MRC-145 service life extension program - RDTE funding is required to determine the optimal solution for the AN/MRC-145 service life extension program | | | | | | |
| Title: NOTM: Test and Evaluation Support Articles: FY 2012 Plans: Test and evaluation support of prototype systems and equipment. FY 2013 Base Plans: Continue test and evaluation support of prototype systems and equipment. | | - | 0.200 0 | 0.350 0 | - | 0.350 0 |
| Title: NOTM: Product Development Articles: FY 2012 Plans: Proof of concept development. FY 2013 Base Plans: Proof of concept development. | | - | 0.460 0 | 0.802 0 | - | 0.802 0 |
| Title: NOTM: Engineering Program Support Articles: FY 2012 Plans: Development efforts to include required acquisition documentation and technical support. FY 2013 Base Plans: Continue development efforts to include required acquisition documentation and technical support. | | - | 0.603 0 | 1.922 0 | - | 1.922 0 |
| Title: CONDOR: Technical, Engineering Support and Contract Advisory, Assistance Services Articles: FY 2011 Accomplishments: Technical, Engineering Support and Contract Advisory, Assistance Services. | | 0.203 0 | - | - | - | - |
| Title: LMST: Engineering Program Support | | - | 1.314 | 0.316 | - | 0.316 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2275: Joint Tactical Radio System | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Articles: | | 0 | 0 | | 0 |
| FY 2012 Plans: Funds for program support, MCOTEA travel to test events, and ECP development for the joint IP Modem upgrades for both the LMST and Phoenix programs. | | | | | |
| FY 2013 Base Plans: Continued program support, and MCOTEA travel to support certification testing and modem integration testing. | | | | | |
| Title: VSAT: Test and Evaluation Support | 0.039 | 0.407 | 0.363 | - | 0.363 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Continue Development and integration efforts along with Science & Technology engineering support for Very Small Aperture Terminal (VSAT). | | | | | |
| FY 2012 Plans: Continue Development and integration efforts, including DISA Modem Certification and engineering support for VSAT. | | | | | |
| FY 2013 Base Plans: Continue Development and integration efforts, including DISA Modem Certification and engineering support for VSAT. | | | | | |
| Title: LMST: Test and Evaluation Support | 0.244 | 1.344 | - | - | - |
| Articles: | 0 | 0 | | | |
| FY 2011 Accomplishments: Continue Science & Technology engineering support. | | | | | |
| FY 2012 Plans: Funds to support JITC certifications and modem integration testing for both the LMST and Phoenix programs. | | | | | |
| Title: Legacy Comm/Elec (Networks): Engineering Support for DTC | 0.352 | - | - | - | - |
| Articles: | 0 | | | | |
| FY 2011 Accomplishments: Continue Engineering Support for Digital Technical Control and TRC-170. | | | | | |
| Title: Legacy Comm/Elec (Networks): Operational Support Test/Support for DTC | 0.293 | - | - | - | - |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2275: Joint Tactical Radio System | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Articles: | | | | | | | | | 0 | | | | |
| FY 2011 Accomplishments: Continued Operational Support Test/Support for DTC/TRC-170. | | | | | | | | | | | | | |
| Title: Legacy Comm/Elec: TRC-170 Test | | | | | | | | | 0.719 0 | - | - | - | - |
| Articles: | | | | | | | | | | | | | |
| FY 2011 Accomplishments: Testing of safety critical failures of TRC-170 antenna replacement. | | | | | | | | | | | | | |
| Title: SMART-T - Program Support | | | | | | | | | - | 0.196 0 | 0.098 0 | - | 0.098 0 |
| Articles: | | | | | | | | | | | | | |
| FY 2012 Plans: Provide Science & Technology Engineering support for Secure, Mobile, Anti-jam, Reliable Tactical Terminal (SMART-T). | | | | | | | | | | | | | |
| FY 2013 Base Plans: Provide Science & Technology Engineering support for Secure, Mobile, Anti-jam, Reliable Tactical Terminal (SMART-T). | | | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | | 1.850 | 4.964 | 4.413 | - | 4.413 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | | |
| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost | | |
| • PMC/4633001: Tactical Satellite LMST | 4.631 | 17.389 | 1.418 | 4.591 | 6.009 | 1.444 | 1.470 | 1.493 | 1.511 | 0.000 | 36.710 | | |
| • PMC/4633002: Legacy Communications Electronics | 31.208 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 39.578 | | |
| • PMC/4633003: Very Small Aperture Terminal (VSAT) | 44.038 | 16.000 | 0.500 | 17.800 | 18.300 | 13.688 | 5.814 | 1.526 | 1.537 | 0.000 | 171.643 | | |
| • PMC/4633004: TCM | 71.179 | 84.450 | 61.683 | 4.937 | 66.620 | 85.694 | 94.182 | 47.728 | 11.530 | 0.000 | 621.259 | | |
| • PMC/4633005: SMART-T | 0.000 | 1.665 | 1.263 | 2.200 | 3.463 | 0.928 | 1.424 | 1.649 | 1.053 | 0.000 | 20.816 | | |
| • PMC/700000: SMART-T Spares | 0.178 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.198 | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> | |

C. Other Program Funding Summary (\$ in Millions)

| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
|----------------------------------|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| • PMC/4633006: <i>AN/TRC-170</i> | 0.000 | 25.136 | 0.000 | 3.000 | 3.000 | 2.992 | 5.979 | 7.464 | 9.206 | 0.000 | 53.777 |

D. Acquisition Strategy

(U) D. ACQUISITION STRATEGY:

(U) Tactical Satellite Comm Terminal (TSCT) - LIGHTWEIGHT MULTIBAND SATELLITE TERMINAL (LMST)/PHOENIX: With the signing of the SATCOM Collapse (20 May 2011) a dynamic transition is about to take place which will consolidate (3) programs, Lightweight Multiband Satellite Terminal (LMST), Phoenix Tactical SHF Satellite Terminal (TSST), and the Very Small Aperture Terminal Large (VSAT-L) into (1) requirement defined as the Universal Satellite Access Tactical Terminal (UnSATT). The acquisition strategy for the Lightweight Multi-band Satellite Terminal (LMST) and Phoenix program is to sustain terminals to maintain joint interoperability through FY17.

(U) Legacy Communications/Electronics Modifications and Sustainment (LEGACY): Provide continuous sustainment support to fielded equipment and implemented Service Life Extension Programs for equipment reaching its end of life supportability.

(U) Command & Control On-the-move Network, Digital Over-the-horizon Relay (CONDOR): Evaluate prototype hardware.

(U) Networking on the Move (NOTM): Develop on-the-move capabilities and integrate with at-the-halt network and legacy communications equipment.

(U) Very Small Aperture Terminal (VSAT): provides beyond line-of-sight (BLOS) satellite communications throughout the MAGTF. Multiple VSAT configurations provide the capability to tailor satellite communications to the lowest echelon. The VSATs are currently Ku-band only which requires commercial satellite connectivity. Future upgrades will utilize the military's Wide-band Global Satellites Ka-band capability to reduce long term O&M costs associated with commercial bandwidth. R&D work is necessary to ensure the successful transition from Ku to Ka-band. R&D funds will also be used to develop and test an X-band capability for the VSAT Terminals. Additional R&D funding will allow for further development of more capable modems which will provide higher capacity through-put and Transmission Security (TRANSEC).

(U) Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T): AEHF capability upgrade requires MCSC to modify SMART-T terminals with AEHF upgrade kits and replace the AN/PSQ-17 planning tool by purchasing the Tactical Computer Digital Mission Planner, AN/PYQ-19, through PM WIN-T.

(U) Tactical Communications Modernization (TCM): - Provides for the testing and evaluation of next generation tactical radio systems supporting the AN/MRC-145 service life extension program.

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> |
| E. Performance Metrics N/A | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | | |
|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|--|------------|---------------|---------------------|------------|--------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2275: Joint Tactical Radio System | | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| NOTM Development | C/FFP | QNA:Stafford, VA | - | 0.460 | Dec 2011 | 0.802 | Dec 2012 | - | | 0.802 | 0.000 | 1.262 | | |
| CONDOR Development | SS/FFP | MITRE ,CECOM:Ft. Monmouth, NJ | 6.970 | - | | - | | - | | - | 0.000 | 6.970 | | |
| Subtotal | | | 6.970 | 0.460 | | 0.802 | | - | | 0.802 | 0.000 | 8.232 | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| NOTM Engineering Support | FFRDC | MITRE:Stafford, VA | - | 0.203 | Jan 2012 | 0.784 | Jan 2013 | - | | 0.784 | 0.000 | 0.987 | | |
| VSAT Development and Integration | FFRDC | MITRE:Stafford, VA | 4.337 | - | Jan 2012 | 0.293 | Jan 2013 | - | | 0.293 | 0.000 | 4.630 | | |
| LMST Contractor Support | FFRDC | MITRE:Stafford, VA | 0.265 | 2.658 | Mar 2012 | 0.316 | Mar 2013 | - | | 0.316 | 0.000 | 3.239 | | |
| LCE (Networks) Support | C/FFP | QNA:Stafford, VA | 2.376 | - | | - | | - | | - | 0.000 | 2.376 | | |
| NOTM Contract Support | C/FFP | QNA:Stafford, VA | - | 0.400 | Mar 2012 | 1.138 | Mar 2013 | - | | 1.138 | 0.000 | 1.538 | | |
| VSAT Contractor Support | C/FFP | QNA:Stafford, VA | 0.043 | - | | - | | - | | - | 0.000 | 0.043 | | |
| LCE (TRC-170A) Support | FFRDC | MITRE, CECOM:Fort Monmouth, NJ | 0.500 | - | | - | | - | | - | 0.000 | 0.500 | | |
| SMART-T Contractor Support | C/FFP | QNA:Stafford, VA | - | 0.196 | Mar 2012 | 0.098 | Mar 2013 | - | | 0.098 | 0.000 | 0.294 | | |
| Subtotal | | | 7.521 | 3.457 | | 2.629 | | - | | 2.629 | 0.000 | 13.607 | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| VSAT Test Support | MIPR | JITC:Ft. Huachuca, AZ | - | 0.407 | Mar 2012 | 0.070 | Mar 2013 | - | | 0.070 | 0.000 | 0.477 | | |
| NOTM Test Support | MIPR | MCTSSA:Camp Pendleton, CA | - | 0.200 | Dec 2011 | 0.350 | Dec 2012 | - | | 0.350 | 0.000 | 0.550 | | |
| LCE (Networks) Test Support | MIPR | MCOTEA/ JITC:Quantico, VA | 0.978 | - | | - | | - | | - | 0.000 | 0.978 | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | | | | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | | | | PROJECT 2275: <i>Joint Tactical Radio System</i> | | | | | |

| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
|---|-----------------------------------|---|-------------------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| TCM Next Generation IISR | C/FFP | MCSC:Quantico, VA | - | 0.440 | Mar 2012 | 0.562 | Mar 2013 | - | | 0.562 | 0.000 | 1.002 | |
| LCE (TRC-170A) | WR | MCOTEA:Quantico, VA | 0.253 | - | | - | | - | | - | 0.000 | 0.253 | |
| Subtotal | | | 1.231 | 1.047 | | 0.982 | | - | | 0.982 | 0.000 | 3.260 | |

| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--|--|-------------------------------|----------------|--|---------------------|--|--------------------|--|----------------------|-------------------------|-------------------|---------------------------------|
| Project Cost Totals | | | 15.722 | 4.964 | | 4.413 | | - | | 4.413 | 0.000 | 25.099 | |

Remarks

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2275: <i>Joint Tactical Radio System</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2275 | | | | |
| LMST BCA | 1 | 2011 | 1 | 2011 |
| LMST Contract Expiration | 4 | 2011 | 4 | 2011 |
| LMST Joint IP Modem Upgrades | 2 | 2013 | 4 | 2017 |
| LMST Reset/MWS | 1 | 2011 | 4 | 2011 |
| LMST Sustainment/Support | 1 | 2011 | 4 | 2017 |
| LMST Contract Award | 1 | 2012 | 1 | 2012 |
| LMST (Phoenix) Joint IP Modem Upgrades | 1 | 2012 | 4 | 2013 |
| LMST (Phoenix) JITC Certifications | 4 | 2013 | 4 | 2013 |
| LMST (Phoenix) Master Work Schedule | 1 | 2011 | 4 | 2017 |
| LMST (Phoenix) PNPT Fielding | 3 | 2011 | 2 | 2012 |
| LMST (Phoenix) Terminals Fielding | 1 | 2011 | 2 | 2011 |
| LMST (Phoenix) Sustainment | 1 | 2011 | 4 | 2017 |
| VSAT ARSTRAT, ICTO, JITC Testing | 1 | 2011 | 1 | 2011 |
| VSAT Government Acceptance Testing | 2 | 2012 | 4 | 2012 |
| VSAT Large Fielding Decision | 4 | 2011 | 4 | 2011 |
| VSAT Large IOC | 1 | 2012 | 1 | 2012 |
| VSAT Large Fielding | 1 | 2012 | 2 | 2012 |
| VSAT Ka-band FRP/Fielding | 3 | 2012 | 3 | 2012 |
| VSAT Small/Medium IOC | 1 | 2013 | 1 | 2013 |
| VSAT JITC Test Event (DICE 3) | 4 | 2013 | 4 | 2013 |
| VSAT JIPM Upgrade | 2 | 2013 | 3 | 2013 |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2275: Joint Tactical Radio System | |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2275: Joint Tactical Radio System | |
| | Start | | End | |
| Events by Sub Project | Quarter | Year | Quarter | Year |
| NOTM EMD Contract Award | 3 | 2014 | 3 | 2014 |
| NOTM LRIP Increment 2 RFP | 4 | 2015 | 4 | 2015 |
| NOTM LRIP Increment 2 Contract Award | 2 | 2016 | 2 | 2016 |
| NOTM LRIP Increment 2 FRP | 4 | 2017 | 4 | 2017 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | | | | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | | | | PROJECT 2276: <i>Comms Switching and Control Sys</i> | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2276: <i>Comms Switching and Control Sys</i> | 4.106 | 3.979 | 8.327 | - | 8.327 | 10.336 | 9.295 | 7.759 | 5.103 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

(U) Network Planning & Management (NPM), formerly Joint Network Management System (JNMS), is a portfolio of communications planning and Network Management applications for use throughout the Marine Air-Ground Task Force (MAGTF). NPM includes the Systems Planning Engineering and Evaluation Device (SPEED). NPM provides the MARFOR (Marine Forces) component planners with the ability to conduct high-level planning; detailed planning and engineering; monitoring; control and reconfiguration; and spectrum planning and management in support of Combatant Commander (COCOM) and Commander, Joint Task Force (CJTF) operations. SPEED provides High Frequency (HF) predictions, Line of Site (LOS) propagation, Radio Coverage Analysis (RCA), Satellite planning, Command and Control Personal Computer (C2PC) track interface, interference and de-confliction analysis, spectrum management, Radio Guard Charts, Comm-On-The-Move (COTM), and T/E (training & education) and force structure management.

(U) Transition Switch Module (TSM): consists of three systems that provide a flexible Unit Level Switch that replaces legacy Tri-Tac switches with current commercial technology, providing maneuver elements with improved voice/data switching, data transport and bandwidth management capabilities. This program maintains USMC joint interoperability as all Services transition to Commercial Off-The-Shelf (COTS) switching technologies.

(U) Expeditionary Command and Control Suite (ECCS): Will provide reach back capability to the Global Information Grid (GIG) to access the Defense Switch Network (DSN), Defense Information System Network (DISN) Secret Internet Protocol Router Network (SIPRNET), Non-secure Internet Protocol Router Network (NIPRNET), and DISN Video Services (DVS), enabling a small advance force/liaison team to communicate with a Marine Air-Ground Task Force (MAGTF), Joint Task Force (JTF) or other Joint Force Commander, and to maintain situational awareness.

(U) Tactical Data Network (TDN) Gateway (GW): The TDN GW is a shelter system mounted on a Heavy-High Mobility Multipurpose Wheeled Vehicle (H-HMMWV) and is the data communication connection between external and internal Marine Air-Ground Task Force (MAGTF) networks. It provides the Wide Area Network (WAN) connection point and is the hub of the Local Area Network (LAN) architecture. The LAN is extended via the Data Distribution System (DDS), which is the TDN server variant of the TDN GW. TDN GWs and DDSs provide data transfer and switching services, subscriber access and mobile host support. A GW can operate from the SENSITIVE BUT UNCLASSIFIED (SBU) up to the SECRET level and contains an integral NSA Type 1 Inline Network Encryption (INE) device capable of supporting tunneling.

(U) Tactical Data Network (TDN) Data Distribution System - Modular (DDS-M): The DDS-M provides the commander a modular, integrated, and interoperable Internet Protocol (IP)- based LAN and WAN data networking capability that forms the data communications backbone and data communications support to organizations within a MAGTF. The DDS-M provides extension of the Defense Information System Network (DISN), Secret Internet Protocol Router Network (SIPRNet), and Sensitive But Unclassified (SBU) Non-secure Internet Protocol Router Network (NIPRNet) as well as a Coalition networking capability and access to strategic, supporting

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy **DATE:** February 2012

| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT |
|---|--|--|
| 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | PE 0206313M: <i>Marine Corps Comms Systems</i> | 2276: <i>Comms Switching and Control Sys</i> |

establishments, joint and other service component tactical data networks for Marine Corps Tactical Data Systems (TDSs) and other DDS-Ms. The DDS-M provides Marine Corps maneuver elements with a modular and scalable IP data transport capability that will replace, supplement and be used with existing legacy data systems through the integration of computers, routers, data switches and cabling, Enhanced Position Location and Reporting System (EPLRS) radio net interface units, MODEMS, link encryption devices, and patch panels. Uninterrupted Power Supplies (UPS) provide for emergency power and continuity of operations. The DDS-M can operate from the SBU up to the TOP SECRET (TS)/SENSITIVE COMPARTMENTED INFORMATION (SCI) level and contains integral In-line Network Encryption (INE) device supporting IP Security (IPSec) and Virtual Private Networking (VPN).

(U) Warfighter Network Tactical (WFN-T): WFN-T is a portfolio of systems of tactical network programs. Starting In FY 2012, WFN-T is broken out into three separate programs: TDN DDS-M, TDN Gateway, and Joint Enhanced Core Communications System (JECCS). WFN-T provides a standard data and voice architecture for voice, Secret Internet Protocol Router Network (SIPRNet), Non-Classified Internet Protocol Router Network (NIPRNet), coalition, data, and video services that is interoperable with Joint communications systems. Specifically, it provides interoperability with Defense Information Systems Agency (DISA) net-centric Global Information Grid (GIG) convergence architecture, provides network optimization (accelerators) to best utilize precious satellite and terrestrial bandwidth, replaces copper and fiber optic cable infrastructure assemblies that are outdated, provides Voice over Internet Protocol (VoIP) that efficiently shares the IP transport data, and provides multi-level security cross-domain solutions mandated by the DISA GIG IP convergence (black core).

(U) Joint Enhanced Core Communications System (JECCS): Formerly known as First In Command and Control System (FICCS). JECCS is the Joint Task Force (JTF) enabler "first in" integrated, processor-controlled communications and management system that provides C2 capabilities supporting a Marine Expeditionary Unit (MEU) deployment ashore of the early phases of a deployment by a larger command element such as a Marine Air-Ground Task Force (MAGTF) or JTF Commander's mission into an Area of Operation. The JECCS is easily scalable and capable of "fly-away" deployment. It is a system of systems composed of Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) equipment. It provides the primary interface between subscriber equipment/systems and the long-haul multi-channel transmission systems. The JECCS facilitates secure and non-secure voice and data communications, switching functions, network routing, and management functions. The JECCS augments the current and planned communications architectures and provides technical control and network management services for the broad range of switching and radio connectivity requirements.

(U) Digital Technical Control (DTC): DTC and other communications are a switch network infrastructure which provides voice, SIPR, NIPR, coalition, data, and video services. DTC provides the deployed warfighter with a standard data and voice architecture that is interoperable with joint and other services' communications systems. Prior to FY 2012, funding for DTC was included in PU C2275, Legacy Communications/Electronics.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|--|---------|---------|-----------------|----------------|------------------|
| Title: TSM: Engineering and Program Support | 0.100 | 0.500 | 0.317 | - | 0.317 |
| Articles: | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Continue engineering and program support efforts. | | | | | |
| FY 2012 Plans: | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2276: Comms Switching and Control Sys | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Continue engineering and program support efforts. | | | | | | |
| FY 2013 Base Plans: Continue engineering and program support efforts. | | | | | | |
| Title: TSM: Technology Insertion Articles: | | 0.212 0 | 0.775 0 | - | - | - |
| FY 2011 Accomplishments: Technology insertion continued development, increment III. | | | | | | |
| FY 2012 Plans: Technology insertion continued development, increment IV. | | | | | | |
| Title: WFN-T: Engineering Support and Prototype Development Articles: | | 1.927 0 | - | - | - | - |
| FY 2011 Accomplishments: Continue FY10 efforts for increments III and IV. | | | | | | |
| Title: WFN-T: Test and Evaluation Support Articles: | | 0.150 0 | - | - | - | - |
| FY 2011 Accomplishments: Continued test and evaluation of WFN-T efforts. | | | | | | |
| Title: DDS-M: Test and Evaluation Support Articles: | | - | 0.380 0 | 0.510 0 | - | 0.510 0 |
| FY 2012 Plans: JITC Joint Interoperability Testing and MCOTEA participation in DT events; First Article Testing (FAT) and Systems Integration Testing (SIT) in support of independent user evaluations. | | | | | | |
| FY 2013 Base Plans: Continue JITC Joint Interoperability Testing and MCOTEA participation in DT events; First Article Testing (FAT) and Systems Integration Testing (SIT) in support of independent user evaluations. | | | | | | |
| Title: DDS-M Program Management Support Articles: | | - | 1.266 0 | 1.444 0 | - | 1.444 0 |
| FY 2012 Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2276: Comms Switching and Control Sys | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Program management support for DDS-M systems. | | | | | | |
| FY 2013 Base Plans: Continue program management support for DDS-M systems. | | | | | | |
| Title: DDS-M: Program Engineering Support | | - | 0.514 | 0.517 | - | 0.517 |
| Articles: | | | 0 | 0 | | 0 |
| FY 2012 Plans: Program engineering support for DDS-M systems. | | | | | | |
| FY 2013 Base Plans: Continue program engineering support for DDS-M systems. | | | | | | |
| Title: NPM: SPEED, CEOI development and Pub 8 compliance | | 1.344 | 0.505 | 0.978 | - | 0.978 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: Continue with SPEED v11.X testing, release, fielding and award. | | | | | | |
| FY 2012 Plans: Continue future enhancements to software to maintain relevancy with emerging communication technology. | | | | | | |
| FY 2013 Base Plans: Continue future enhancements to software to maintain relevancy with emerging communication technology. | | | | | | |
| Title: ECCS: Test and Evaluation Support | | 0.373 | - | 0.409 | - | 0.409 |
| Articles: | | 0 | | 0 | | 0 |
| FY 2011 Accomplishments: Continue test and evaluation support. | | | | | | |
| FY 2013 Base Plans: Continue test and evaluation support. | | | | | | |
| Title: ECCS: Engineering and Program Support | | - | 0.038 | 0.934 | - | 0.934 |
| Articles: | | | 0 | 0 | | 0 |
| FY 2012 Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2276: Comms Switching and Control Sys | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Continue engineering and program efforts. | | | | | | |
| FY 2013 Base Plans: Continue engineering and program efforts. | | | | | | |
| Title: ECCS: Product Development | Articles: | - | - | 0.770 0 | - | 0.770 0 |
| FY 2013 Base Plans: Development on JIPM, ARSTRAT, and IA certifications. | | | | | | |
| Title: JECCS: Engineering and Program Support | Articles: | - | - | 0.077 0 | - | 0.077 0 |
| FY 2013 Base Plans: Continue program support for development and testing efforts. | | | | | | |
| Title: JECCS: Test and Evaluation Support | Articles: | - | - | 0.040 0 | - | 0.040 0 |
| FY 2013 Base Plans: Continue upgrade/refresh testing of JECCS-R systems. | | | | | | |
| Title: DTC: Test and Evaluation Support | Articles: | - | - | 0.151 0 | - | 0.151 0 |
| FY 2013 Base Plans: Provide support for T&E efforts. | | | | | | |
| Title: DTC: Engineering and Development Support | Articles: | - | 0.001 0 | 2.180 0 | - | 2.180 0 |
| FY 2012 Plans: Continue engineering program support efforts. | | | | | | |
| FY 2013 Base Plans: Continue engineering program support efforts. | | | | | | |
| Accomplishments/Planned Programs Subtotals | | 4.106 | 3.979 | 8.327 | - | 8.327 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2276: Comms Switching and Control Sys | |

C. Other Program Funding Summary (\$ in Millions)

| Line Item | FY 2011 | FY 2012 | FY 2013 | FY 2013 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To | Total Cost |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|------------|
| | | | Base | OCO | Total | | | | | Complete | |
| • PMC/4634-1: TSM | 1.850 | 15.780 | 0.000 | 22.100 | 22.100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 146.348 |
| • PMC/4634-2: ECCS | 0.415 | 0.000 | 0.300 | 0.000 | 0.300 | 4.777 | 12.657 | 10.423 | 0.000 | 0.000 | 38.436 |
| • PMC/4634-4: WFN-T | 21.217 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 107.379 |
| • PMC/4634-5: DDS-M | 0.000 | 98.153 | 32.353 | 0.000 | 32.353 | 56.073 | 50.931 | 40.436 | 41.007 | 0.000 | 318.953 |
| • PMC/4634-6: DTC | 0.000 | 20.134 | 3.295 | 0.000 | 3.295 | 8.981 | 1.070 | 3.484 | 7.352 | 0.000 | 44.316 |
| • PMC/4634-7: JECCS | 0.000 | 0.000 | 5.200 | 0.000 | 5.200 | 5.192 | 1.746 | 1.776 | 9.913 | 0.000 | 23.827 |
| • PMC/4630-1: TSM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 22.117 | 0.000 | 0.000 | 0.000 | 0.000 | 22.117 |

D. Acquisition Strategy

(U) Transition Switch Module (TSM): calls for the identification, integration, and testing of commercial switching technologies of sufficient maturity to improve system performance or meet emerging user requirements. Seeks commercial solutions that are fully compatible and interoperable with other Communication Networking Systems (CNS) programs that are fielded and/or being fielded e.g., DTC, TDN, Joint Enhanced Core Communication System (JECCS) etc.

(U) Network Planning and Management (NPM), formerly Joint Network Management Systems (JNMS): The NPM acquisition strategy emphasizes the use of Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) products. The USMC GOTS SPEED acquisition strategy is for spiral development with the goal of releasing one new version of software annually. The SPEED contract method is through a sole source Blanket Purchase Agreement (BPA) using Fixed Price Task Orders based on the developer's GSA schedule for man-hours.

(U) Expeditionary Command and Control Suite (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 integrating and testing 'miniaturized' versions of existing components. Emerging technologies such as VoIP and Secure Wireless will also be addressed in the out year R&D effort. R&D funding drops as system goes into production.

(U) Tactical Data Network (TDN): is an evolutionary acquisition strategy. As new products and industry standards are produced, they are to be tested and integrated into TDN equipment. RDTE funding is required to test and evaluate Commercial Off-The-Shelf (COTS) items which will be integrated into TDN Gateways and Data Distribution Systems (DDS) to fulfill Operational Requirements Document (ORD) requirements. FY10 and FY11 funding for TDN is included in the WFN-T line.

(U) TDN Data Distribution System - Modular (DDS-M): is an evolutionary acquisition strategy that will modify existing and legacy programs to add emerging capabilities for interoperability. The tenets of the WFN-T acquisition strategy are Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS), firm fixed-price competitive contracts for material solutions to meet emerging requirements. WFN-T may reuse other Services' development and ride external contracts that satisfy requirements and analysis of alternatives.

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2276: <i>Comms Switching and Control Sys</i> |
| <p>(U) Joint Enhanced Core Communications System-Refresh (JECCS-R): The JECCS-R acquisition strategy is based upon an evolutionary acquisition where most components are Commercial Off-the-Shelf (COTS). As an evolutionary acquisition, the JECCS will continue to be upgraded and improved as technology advances. Software version upgrades will be included. COTS and GOTS will be used to the maximum extent possible. The task order recipient will be responsible for updating the JECCS-R system operations and maintenance manual, which provides an integrated view of the equipment and interoperation of all components.</p> <p>(U) Digital Technical Control (DTC): is an evolutionary acquisition strategy. As new products and industry standards are produced, they are to be tested and integrated into DTC equipment. Major concerns will be interoperability and compatibility with existing systems and components in the Marine Corps, as well as Joint and Coalition forces. R&D effort will focus on developing and integrating improved versions of existing components, while working toward the end-state of IPV6.</p> <p><u>E. Performance Metrics</u> N/A</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | | |
|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|--|------------|---------------|---------------------|------------|--------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2276: Comms Switching and Control Sys | | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| ECCS JIPM, ARSTRAT | C/FFP | US Army, CECOM:Aberdeen, MD | 7.231 | - | | 0.555 | Jan 2013 | - | | 0.555 | 0.000 | 7.786 | | |
| ECCS IA Certifications | Reqn | MCOTEA:Quantico, VA | 6.412 | - | | 0.215 | Dec 2012 | - | | 0.215 | 0.000 | 6.627 | | |
| NPM (SPEED S/W Development) | C/FFP | MCSC, Northrop Grumman:VA, FL | 7.329 | 0.505 | Mar 2012 | 0.978 | Jan 2013 | - | | 0.978 | 0.000 | 8.812 | | |
| TSM DITS-H Development | SS/FFP | MCSC, ITT:VA, SC | 1.140 | 0.775 | Mar 2012 | - | | - | | - | 0.000 | 1.915 | | |
| Subtotal | | | 22.112 | 1.280 | | 1.748 | | - | | 1.748 | 0.000 | 25.140 | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| ECCS Engineering Support | FFRDC | US Army, MITRE:Stafford, VA | - | 0.038 | Jan 2012 | 0.534 | Jan 2013 | - | | 0.534 | 0.000 | 0.572 | | |
| DTC Engineering Supportq | FFRDC | US Army, MITRE:Stafford, VA | - | 0.001 | Jan 2012 | 2.180 | Jan 2013 | - | | 2.180 | 0.000 | 2.181 | | |
| ECCS Engineering Support | WR | MCTSSA:Camp Pendleton, CA | - | - | | 0.100 | Dec 2012 | - | | 0.100 | 0.000 | 0.100 | | |
| TSM Engineering Support | FFRDC | US Army, MITRE:Stafford, VA | 0.526 | 0.500 | Jan 2012 | 0.317 | Jan 2013 | - | | 0.317 | 0.000 | 1.343 | | |
| WFN-T Engineering Support | FFRDC | US Army, MITRE:Stafford, VA | 1.882 | - | | - | | - | | - | 0.000 | 1.882 | | |
| DDS-M Engineering Support | SS/FFP | US Army, MITRE:Stafford, VA | - | 0.514 | Jan 2012 | 0.517 | Jan 2013 | - | | 0.517 | 0.000 | 1.031 | | |
| Subtotal | | | 2.408 | 1.053 | | 3.648 | | - | | 3.648 | 0.000 | 7.109 | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| ECCS T&E | WR | MCOTEA:VA | - | - | | 0.315 | Jan 2013 | - | | 0.315 | 0.000 | 0.315 | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | |
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| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | PE 0206313M: Marine Corps Comms Systems | | | | 2276: Comms Switching and Control Sys | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| ECCS T&E | MIPR | JITC:Ft. Huachuca, AZ | - | - | | 0.094 | Jan 2013 | - | | 0.094 | 0.000 | 0.094 | |
| DTC T&E | MIPR | JITC:Ft. Huachuca, AZ | - | - | | 0.151 | May 2013 | - | | 0.151 | 0.000 | 0.151 | |
| WFN-T T&E | MIPR | JITC:Ft. Huachuca, AZ | 0.900 | - | | - | | - | | - | 0.000 | 0.900 | |
| DDS-M T&E | WR | MCOTEA:VA | - | 0.300 | Mar 2012 | 0.300 | Mar 2013 | - | | 0.300 | 0.000 | 0.600 | |
| DDS-M T&E | MIPR | JITC:Ft. Huachuca, AZ | - | 0.080 | May 2012 | 0.210 | May 2013 | - | | 0.210 | 0.000 | 0.290 | |
| Subtotal | | | 0.900 | 0.380 | | 1.070 | | - | | 1.070 | 0.000 | 2.350 | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| ECCS Program Support | C/FFP | MCSc, QinetiQ:VA | - | - | | 0.300 | Mar 2013 | - | | 0.300 | 0.000 | 0.300 | |
| JECCS Program Support | C/FFP | MCSC, QinetiQ:VA | - | - | | 0.117 | Mar 2013 | - | | 0.117 | 0.000 | 0.117 | |
| DDS-M Program Support | C/FFP | MCSC, QinetiQ:VA | - | 1.266 | Mar 2012 | 1.444 | Mar 2013 | - | | 1.444 | 0.000 | 2.710 | |
| Subtotal | | | - | 1.266 | | 1.861 | | - | | 1.861 | 0.000 | 3.127 | |
| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 25.420 | 3.979 | | 8.327 | | - | | 8.327 | 0.000 | 37.726 | |
| Remarks | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2276: Comms Switching and Control Sys |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2276: <i>Comms Switching and Control Sys</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2276 | | | | |
| TDN DDS-M Core Modules - Fielding | 1 | 2011 | 1 | 2013 |
| TDN DDS-M Core Modules - IOC | 2 | 2012 | 3 | 2012 |
| TDN DDS-M - Core Modules - FOC | 1 | 2013 | 3 | 2013 |
| TDN DDS-M - Recompete RFP | 3 | 2012 | 3 | 2012 |
| TDN DDS-M - Contract Award | 2 | 2013 | 2 | 2013 |
| TDN DDS-M - Tech Refresh/Fielding | 2 | 2014 | 4 | 2016 |
| NPM/SPEED IPR (one per quarter) | 1 | 2011 | 4 | 2017 |
| NPM/SPEED Fielding - Ver 11.0 | 4 | 2011 | 4 | 2011 |
| NPM/SPEED Fielding - Ver 11.1 | 2 | 2012 | 2 | 2012 |
| NPM/SPEED Fielding - Ver 11.X (one new version per FY) | 2 | 2013 | 2 | 2017 |
| NPM/SPEED RFP | 1 | 2012 | 1 | 2012 |
| NPM/SPEED Contract Award | 1 | 2013 | 1 | 2013 |
| NPM/SPEED Developmental Test - PAT (1st QTR each FY) | 1 | 2011 | 1 | 2017 |
| NPM/SPEED Operational Test - FAT 1 (1st QTR each FY) | 1 | 2011 | 1 | 2017 |
| NPM/SPEED ATO for 11.0 | 3 | 2011 | 3 | 2011 |
| NPM/SPEED ATO for 11.1 | 1 | 2012 | 1 | 2012 |
| NPM/SPEED ATO for 11.X | 2 | 2013 | 2 | 2013 |
| ECCS RFI | 4 | 2011 | 4 | 2011 |
| ECCS MDD | 3 | 2011 | 3 | 2011 |
| ECCS RFP Release | 1 | 2012 | 1 | 2012 |
| ECCS MS C/FRP | 1 | 2012 | 1 | 2012 |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 | |
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| | Start | | End | |
| Events by Sub Project | Quarter | Year | Quarter | Year |
| ECCS Contract Award | 1 | 2012 | 1 | 2012 |
| ECCS Verification Test | 3 | 2012 | 4 | 2012 |
| ECCS FCA | 4 | 2012 | 4 | 2012 |
| ECCS PCA | 4 | 2012 | 4 | 2012 |
| ECCS Fielding Decision | 4 | 2012 | 4 | 2012 |
| DTC-R FCA | 2 | 2011 | 2 | 2011 |
| DTC-R OA | 2 | 2011 | 3 | 2011 |
| DTC-R Full Rate Production | 3 | 2011 | 3 | 2011 |
| DTC-R NET | 1 | 2012 | 2 | 2013 |
| DTC-R IOC | 2 | 2012 | 2 | 2012 |
| DTC-R Refresh Fielding | 2 | 2012 | 2 | 2015 |
| DTC-R FOC | 1 | 2014 | 1 | 2014 |
| DTC-R Market Research | 1 | 2014 | 1 | 2015 |
| DTC-R PDR | 2 | 2015 | 2 | 2015 |
| DTC-R CDR | 4 | 2015 | 4 | 2015 |
| JECCS CARD | 1 | 2011 | 2 | 2011 |
| JECCS LCCE | 2 | 2011 | 3 | 2011 |
| JECCS Affordability Assessment (AA) | 4 | 2011 | 1 | 2012 |
| JECCS RFI | 3 | 2011 | 3 | 2011 |
| JECCS RFP | 4 | 2011 | 4 | 2011 |
| JECCS MDD | 1 | 2012 | 1 | 2012 |
| JECCS MS B | 3 | 2012 | 3 | 2012 |
| JECCS FRP/MS C | 1 | 2013 | 1 | 2013 |
| JECCS Production Decision | 2 | 2013 | 2 | 2013 |
| JECCS Fielding Decision | 3 | 2013 | 3 | 2013 |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2276: Comms Switching and Control Sys | |
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*
BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE

PE 0206313M: *Marine Corps Comms Systems*

PROJECT

2276: Comms Switching and Control Sys

| | Start | | End | |
|-------------------------------------|---------|------|---------|------|
| Events by Sub Project | Quarter | Year | Quarter | Year |
| TSM Contract Award Increment x | 1 | 2015 | 1 | 2015 |
| TSM Fielding Technology Insertion 2 | 3 | 2013 | 4 | 2014 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
|--|---------|---------|-----------------|--|------------------|---------|---------|---|---------------------|---------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2277: System Engineering and Integration | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2277: System Engineering and Integration | 5.405 | 9.575 | 6.171 | - | 6.171 | 6.366 | 6.450 | 6.537 | 6.573 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

This project 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 and standard across programs. Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, and Coordination. (MAGTF C4I SEI&C) provides for the centralized planning and execution of Marine Corps Enterprise Information Technology and National Security Systems. It develops, certifies, and manages the configurations of the Marine Corps Enterprise

Systems and Technical Architecture products and uses these to support enterprise-level systems engineering. It supports unified technical representation to joint and coalition communities for Marine Corps Systems and provides top-tier system engineering support to address system of systems technical issues. It is used to conduct direct Marine Expeditionary Unit/Marine Expeditionary Force (MEU/MEF) support in system integration testing with USN. This is part of Deploying Group Systems Integration Testing (DGSIT)) and workups supporting Marine Expeditionary Force (MEF) deployments. It is also used to support Marine Corps systems coordination and involvement in DoD initiatives to include ForceNet, Global Information Grid Enterprise Services (GIGES), and other Deployable Information Systems Architecture DISA/NETWARCOM efforts.

Joint Distributed Engineering Plant (JDEP) directly supports DoD mandated directive CJCSI 6212.01F, to evaluate the interoperability of the holistic Marine Air Ground Task Force (MAGTF) Command Control Communications Intelligence (C4I) Capability produced by Marine Corps Systems Command (MARCORSYSCOM). This evaluation will be accomplished via the MAGTF C4I Capability Certification (MC3) process. Using MC3, composite capabilities are evaluated for their collective interoperability with joint forces; support integration of emmergent systems with systems already fielded, and to conduct critical engineering analysis capable of isolating and correcting capability deficiencies and optimize system of systems performance.

Joint Interoperability of Tactical Command and Control Systems (JINTACCS) is a Joint Chiefs-of-Staff (JCS)/DoD-mandated program for joint development, implementation, and testing of tactical datalinks and US Message Text Format (MTF) under the direction of the Defense Information Systems Agency (DISA) and Office of the Secretary of Defense/Networks and Information Integration (OASD/NII) per the Commander Joint Chiefs of Staff (CJCSI) 6610.01C and CJCS16241.04 for US Military Tactical Forces (USMTF).

Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, and Coordination. (MAGTF C4I SEI&C) provides for the centralized planning and execution of Marine Corps Enterprise Information Technology and National Security Systems. It develops, certifies, and manages the configurations of the Marine Corps Enterprise Systems and Technical Architecture products and uses these to support enterprise-level systems engineering. It supports unified technical representation to joint and coalition communities for Marine Corps Systems and provides top-tier system engineering support to address system of systems technical issues. It is used to conduct direct Marine Expeditionary Unit/Marine Expeditionary Force (MEU/MEF) support in

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2277: System Engineering and Integration | | | | |
| system integration testing with USN. This is part of Deploying Group Systems Integration Testing (DGSIT)) and workups supporting Marine Expeditionary Force (MEF) deployments. It is also used to support Marine Corps systems coordination and involvement in DoD initiatives to include ForceNet, Global Information Grid Enterprise Services (GIGES), and other Deployable Information Systems Architecture DISA/NETWARCOM efforts. | | | | | | | |
| Expeditionary Energy Office (E2O): Energy is a top priority for the USMC as stated by the Commandant, and in support of this priority, he created the USMC Expeditionary Energy Office (E2O), with the mission to analyze, develop, and direct the Marine Corps' energy strategy in order to optimize expeditionary capabilities across all warfighting functions. E2O's role is to advise the Marine Requirements Oversight Council (MROC) on all energy and resource related requirements, acquisitions, and programmatic decisions. This office and funding will support the USMC Energy Strategy, which is the framework for the Marine Corps that communicates the Commandant's vision, mission, goals and objectives for expeditionary and installations energy. Additionally, this funding will enable execution of the USMC Energy Strategy Implementation Guidance which identifies specified tasks and responsibilities and timeframes for achievement. These two documents align the Marine Corps with operational energy management and strategy requirements established in the National Defense Authorization Act 2009, DoD directives and SECNAV goals. This funding will support the office's requirements for technical, programmatic, and administrative support. | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Title: Expeditionary Energy Office (E2O) | | | - | 2.4510 | 2.4480 | - | 2.4480 |
| Articles: | | | | | | | |
| FY 2012 Plans: Funds provide Expeditionary "Smart" Power Grids, Expeditionary Alternative (PV Solar) Energy Systems and Alternative (Bio) fuels to analyze, develop, and direct the Marine Corps" energy strategy in order to optimize expeditionary capabilities across all warfighting functions. Additionally, this funding will enable execution of the USMC Energy Strategy Implementation Guidance which identifies specified tasks and responsibilities and timeframes for achievement. These two documents align the Marine Corps with operational energy management and strategy requirements established in the National Defense Authorization Act 2009, DoD directives and SECNAV goals. This funding will support the office"s requirements for technical, programmatic, and administrative support." | | | | | | | |
| FY 2013 Base Plans: Funds provide Expeditionary "Smart" Power Grids, Expeditionary Alternative (PV Solar) Energy Systems and Alternative (Bio) fuels to analyze, develop, and direct the Marine Corps" energy strategy in order to optimize expeditionary capabilities across all warfighting functions. Additionally, this funding will enable execution of the USMC Energy Strategy Implementation Guidance which identifies specified tasks and responsibilities and timeframes for achievement. These two documents align the Marine Corps with operational energy management and strategy requirements established in the National Defense Authorization Act 2009, DoD | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2277: System Engineering and Integration | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| directives and SECNAV goals. This funding will support the office"s requirements for technical, programmatic, and administrative support." | | | | | |
| Title: JINTACCS: JCS and OASD/NII Data Links Testing. | | | | | |
| Articles: | | | | | |
| Description: Joint Interoperability of Tactical Command and Control Systems (JINTACCS) is a Joint Chiefs-of-Staff (JCS)/DoD-mandated program for joint development, implementation, and testing of tactical data links and US Message Text Format (MTF) under the direction of the Defense Information Systems Agency (DISA) and Office of the Secretary of Defense/Networks and Information Integration (OASD/NII) per the Commander Joint Chiefs of Staff (CJCSI) 6610.01C and CJCS16241.04 for US Military Tactical Forces (USMTF). | | | | | |
| FY 2011 Accomplishments: | | | | | |
| JINTACCS: Joint development, implementation, and testing of data links under the direction of the JCS and OASD/NII. | | | | | |
| FY 2012 Plans: | | | | | |
| JINTACCS: Joint development, implementation, and testing of data links under the direction of the JCS and OASD/NII. | | | | | |
| FY 2013 Base Plans: | | | | | |
| JINTACCS: Joint development, implementation, and testing of data links under the direction of the JCS and OASD/NII. | | | | | |
| Title: SEIC: Engineering and Technical Support | | | | | |
| Articles: | | | | | |
| Description: Marine Air-Ground Task Force (MAGTF) Command, Control, Communications, Computers, and Intelligence (C4I) Systems Engineering and Integration, and Coordination (SEI&C). MAGTF C4I SEI&C provides for the centralized planning and execution of Marine Corps Enterprise Information Technology and National Security Systems. It develops, certifies, and manages the configurations of the Marine Corps Enterprise Systems and Technical Architecture products and uses these to support enterprise-level systems engineering. It supports unified technical representation to joint and coalition communities for Marine Corps Systems and provides top-tier system engineering support to address system of systems technical issues. It is used to conduct direct Marine Expeditionary Unit/Marine Expeditionary Force (MEU/MEF) support in system integration testing with USN. This is part of Deploying Group Systems Integration Testing (DGSIT)) and | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2277: System Engineering and Integration | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| workups supporting Marine Expeditionary Force (MEF) deployments. It is also used to support Marine Corps systems coordination and involvement in DoD initiatives to include ForceNet, Global Information Grid Enterprise Services (GIGES), and other Deployable Information Systems Architecture DISA/NETWARCOM efforts. FY 2011 Accomplishments: MAGTF SEI&C: Engineering and technical support for configuration management of MAGTF C4I systems. Review and submittal of multiple Integration Support Plans (ISPs) and Tactical ISPs (TISPs). Pre-deployment assistance to I MEF and multiple MEUs. Participation in ForceNet, NCES, GIGES and other Joint DoD initiatives. Plans are for continued activities to support the interoperability and jointness of the USMC Enterprise IT/NSS systems. FY 2012 Plans: MAGTF SEI&C: Engineering and technical support for configuration management of MAGTF C4I systems. Review and submittal of multiple Integration Support Plans (ISPs) and Tactical ISPs (TISPs). Pre-deployment assistance to I MEF and multiple MEUs. Participation in ForceNet, NCES, GIGES and other Joint DoD initiatives. Plans are for continued activities to support the interoperability and jointness of the USMC Enterprise IT/NSS systems. FY12 level of funding is needed to accomplish the technical objectives for integration and interoperability between MAGTF systems and systems of systems. FY 2013 Base Plans: MAGTF SEI&C: Engineering and technical support for configuration management of MAGTF C4I systems. Review and submittal of multiple Integration Support Plans (ISPs) and Tactical ISPs (TISPs). Pre-deployment assistance to I MEF and multiple MEUs. Participation in ForceNet, NCES, GIGES and other Joint DoD initiatives. Plans are for continued activities to support the interoperability and jointness of the USMC Enterprise IT/NSS systems. FY13 level of funding is needed to accomplish the technical objectives for integration and interoperability between MAGTF systems and systems of systems. | | | | | | |
| Title: JDEP: Develop Certifications and Conduct MAGTF C4I Capability <div>Articles:</div> Description: Joint Distributed Engineering Plant (JDEP) directly supports DoD mandated directive CJCSI 6212.01F, to evaluate the interoperability of the holistic Marine Air Ground Task Force (MAGTF) Command Control Communications Intelligence (C4I) Capability produced by Marine Corps Systems Command (MARCORSYSCOM). This evaluation will be accomplished via the MAGTF C4I Capability Certification (MC3) process. Using MC3, composite capabilities are evaluated for their collective interoperability with | | 1.429 0 | 1.024 0 | - | - | - |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | | PROJECT 2277: <i>System Engineering and Integration</i> | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| joint forces; support integration of emmergent systems with systems already fielded, and to conduct critical engineering analysis capable of isolating and correcting capability deficiencies and optimize system of systems performance. FY 2011 Accomplishments: JDEP: Conduct development of the MAGTF C4I Capability Certification process which involved the creation of capability based test threads. Additionally, create Joint Test Threads and participate in a JFCOM sponsored joint distributed test event. FY 2012 Plans: JDEP: Conduct development of the MAGTF C4I Capability Certification process which involved the creation of capability based test threads. Additionally, create Joint Test Threads and participate in a JFCOM sponsored joint distributed test event. | | | | | | |
| Accomplishments/Planned Programs Subtotals | | 5.405 | 9.575 | 6.171 | - | 6.171 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | |
| N/A | | | | | | |
| D. Acquisition Strategy | | | | | | |
| N/A | | | | | | |
| E. Performance Metrics | | | | | | |
| N/A | | | | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
|--|------------------------|--------------------------------|------------------------|---|------------|--------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | | | |
| 1319: Research, Development, Test & Evaluation, Navy | | | | PE 0206313M: Marine Corps Comms Systems | | | | 2277: System Engineering and Integration | | | | | |
| BA 7: Operational Systems Development | | | | | | | | | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| JINTACCS | C/FP | NSWC:Dahlgren, VA | 0.070 | - | | - | | - | | - | 0.000 | 0.070 | |
| Subtotal | | | 0.070 | - | | - | | - | | - | 0.000 | 0.070 | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| MAGTF SEI&C | C/FP | OSEC:Stafford, VA | 1.200 | 2.480 | Apr 2012 | 1.313 | Apr 2013 | - | | 1.313 | 0.000 | 4.993 | |
| MAGTF SEI&C | C/FP | MCSC:Quantico, VA | 0.800 | 0.800 | Apr 2012 | 0.440 | Apr 2013 | - | | 0.440 | 0.000 | 2.040 | |
| MAGTF SEI&C | WR | NSWC:Dahlgren, VA | 0.449 | 0.750 | Apr 2012 | 0.413 | Apr 2013 | - | | 0.413 | 0.000 | 1.612 | |
| JDEP | C/FP | NSWC:Dahlgren, VA | 1.152 | 0.344 | Apr 2012 | - | | - | | - | 0.000 | 1.496 | |
| JDEP | C/FP | OSEC:Carlsbad, CA | 0.300 | 0.340 | Apr 2012 | - | | - | | - | 0.000 | 0.640 | |
| JINTACCS | C/FP | OSEC:Stafford, VA | 1.000 | 0.742 | Apr 2012 | 0.686 | Apr 2013 | - | | 0.686 | 0.000 | 2.428 | |
| JINTACCS | C/FP | MCTSSA:Cmp Pendlton CA | 0.513 | 0.328 | Apr 2012 | 0.321 | Apr 2013 | - | | 0.321 | 0.000 | 1.162 | |
| EEO (E20) | WR | NWSC:Crane, IN | - | 0.901 | Jan 2012 | 0.870 | Jan 2013 | - | | 0.870 | 0.000 | 1.771 | |
| EEO (E20) | C/FP | NWSC:Cradderock, MD | - | 0.875 | Jan 2012 | 0.887 | Jan 2013 | - | | 0.887 | 0.000 | 1.762 | |
| EEO (E20) | C/FP | SPAWAR:Charleston, SC | - | 0.675 | Jan 2012 | 0.691 | Jan 2013 | - | | 0.691 | 0.000 | 1.366 | |
| Subtotal | | | 5.414 | 8.235 | | 5.621 | | - | | 5.621 | 0.000 | 19.270 | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| JDEP | WR | SSCC:Charleston, SC | - | 0.340 | Apr 2012 | - | | - | | - | 0.000 | 0.340 | |
| MAGTF SEI&C | MIPR | MITRE:Ft Monmouth NJ | - | 1.000 | Apr 2012 | 0.550 | Apr 2013 | - | | 0.550 | 0.000 | 1.550 | |
| Subtotal | | | - | 1.340 | | 0.550 | | - | | 0.550 | 0.000 | 1.890 | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2277: System Engineering and Integration | | | |
| | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | 5.484 | 9.575 | | 6.171 | | - | | 6.171 | 0.000 | 21.230 | |

Remarks

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | |
|---|---------|---------|--------------|---|---------------|---------|---------|----------------------------------|---------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | PE 0206313M: Marine Corps Comms Systems | | | | 2278: Air Defense Weapons System | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2278: Air Defense Weapons System | 5.788 | 2.171 | 1.993 | - | 1.993 | 3.210 | 3.407 | 3.421 | 3.491 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

Ground Based Air Defense Transformation (GBAD-T) - Based upon the deployment of the Low Altitude Air Defense (LAAD) Battalions and their employment of the Stinger Missile, GBAD-T transforms Air Defense equipment through technology insertion and equipment repackaging to address capability gaps as the result of equipment obsolescence and the emergent and evolving threats to the Marine Air Ground Task Force (MAGTF).

GBAD-T consist of three efforts: 1) sustainment of currently fielded LAAD equipment/assets; 2) fielding and support of the Advanced Man-Portable Air Defense System (A-MANPADS) that replaces the Avenger Weapon System and existing MANPADS vehicles; 3) replacing the Remote Terminal Unit (RTU), an effort that replaces an 18 pound laptop computer that provides Situational Awareness and Command and Control to the Stinger and A-MANPAD teams. The RTU replacement will interface with and be capable of receiving a Common Aviation Command and Control Systems (CAC2S) broadcasted link. It will also be capable of interfacing with legacy MACCS.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Title: *GBAD TRANSFORMATION: Program Management Services Articles: | 0.107 0 | 1.105 0 | 0.705 0 | - | 0.705 0 |
| FY 2011 Accomplishments: Continuing efforts for Information Assurance Accreditation. | | | | | |
| FY 2012 Plans: Information Assurance and Research into Slue to Cue and follow on weapons systems. | | | | | |
| FY 2013 Base Plans: Information Assurance and Research into Optics and Mode 5 IFF (identification friend or foe). | | | | | |
| Title: *GBAD TRANSFORMATION: Product Development Articles: | 0.473 0 | 0.075 0 | 0.297 0 | - | 0.297 0 |
| FY 2011 Accomplishments: Continuing effort to research a replacement weapon for Stinger. | | | | | |
| FY 2012 Plans: | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2278: Air Defense Weapons System | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Research in to advanced Friend or Foe Identification. | | | | | | | | | | | | |
| FY 2013 Base Plans: Research in advanced Friend or Foe Identification. | | | | | | | | | | | | |
| Title: *GBAD TRANSFORMATION: Integration Development (Missile Integration) Articles: | | | | | | | | 4.983 0 | 0.791 0 | 0.791 0 | - | 0.791 0 |
| FY 2011 Accomplishments: Multiple vendor and Government participation in a Government sponsored GBAD capabilities demonstration. | | | | | | | | | | | | |
| FY 2012 Plans: Multiple vendor and Government participation in a Government sponsored GBAD capabilities demonstration. | | | | | | | | | | | | |
| FY 2013 Base Plans: Multiple vendor and Government participation in a Government sponsored GBAD capabilities demonstration. | | | | | | | | | | | | |
| Title: *GBAD TRANSFORMATION: Support Costs (MCTSSA/MCCDC/Crane support) Articles: | | | | | | | | 0.225 0 | 0.200 0 | 0.200 0 | - | 0.200 0 |
| FY 2011 Accomplishments: GBAD-T will continue to support Health Assesments at the LAAD Battalions and the Stinger School house, ensuring Operational Readiness is maintained. | | | | | | | | | | | | |
| FY 2012 Plans: GBAD-T will continue to support Health Assesments at the LAAD Battalions and the Stinger School house, ensuring Operational Readiness is maintained. | | | | | | | | | | | | |
| FY 2013 Base Plans: GBAD-T will continue to support Health Assesments at the LAAD Battalions and the Stinger School house, ensuring Operational Readiness is maintained. | | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | 5.788 | 2.171 | 1.993 | - | 1.993 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | | |
| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost | |
| • PMC/300600: GBAD-T | 3.559 | 12.287 | 11.054 | 0.000 | 11.054 | 24.632 | 24.436 | 10.723 | 10.478 | Continuing | Continuing | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2278: <i>Air Defense Weapons System</i> |
| D. Acquisition Strategy GBAD TRANSFORMATION: Designated an Abbreviated Acquisition Program (AAP), GBAD-T effects the rapid transition from the Avenger/MANPADS weapon system to the more mobile, flexible, and maintainable Advanced MANPADS. The AAP is principally comprised of integrating Government Off The Shelf (GOTS) equipment and Non-developmental Items (NDI). | | |
| E. Performance Metrics N/A | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
|---|------------------------|--------------------------------|------------------------|---|------------|--------------|------------|----------------------------------|------------|---------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | PE 0206313M: Marine Corps Comms Systems | | | | 2278: Air Defense Weapons System | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GBAD-T | WR | NSWC:Crane.IN | 3.424 | - | | - | | - | | - | 0.000 | 3.424 | |
| GBAD-T | MIPR | Army:AMRDEC | 4.991 | - | | - | | - | | - | 0.000 | 4.991 | |
| GBAD-T | MIPR | PMA-259:China Lake | 2.375 | - | | - | | - | | - | 0.000 | 2.375 | |
| GBAD-T | Various | TBD:. | 5.548 | - | | - | | - | | - | 0.000 | 5.548 | |
| GBAD-T | WR | NSWC:Crane,IN (PAS-13 HW) | 1.469 | - | | - | | - | | - | 0.000 | 1.469 | |
| GBAD-T | C/FP | EG&G:Stafford, VA | 0.489 | - | | - | | - | | - | 0.000 | 0.489 | |
| GBAD-T | C/FP | DRS Tech:Palm Bay, FL | 0.215 | - | | - | | - | | - | 0.000 | 0.215 | |
| GBAD-T | C/FP | Raytheon:San Diego, CA | 3.700 | - | | - | | - | | - | 0.000 | 3.700 | |
| GBAD-T | C/FP | MCSC:Quantico, VA | 0.464 | 0.075 | Nov 2011 | 0.297 | Nov 2012 | - | | 0.297 | 0.000 | 0.836 | |
| GBAD-T | C/FP | L3:San Diego, CA | 1.473 | - | | - | | - | | - | 0.000 | 1.473 | |
| Subtotal | | | 24.148 | 0.075 | | 0.297 | | - | | 0.297 | 0.000 | 24.520 | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GBAD-T | WR | NSWC:Crane, IN | 0.526 | 0.200 | Jan 2012 | 0.200 | Jan 2013 | - | | 0.200 | 0.000 | 0.926 | |
| GBAD-T | C/FP | MCCDC:Quantico, VA | 1.910 | - | | - | | - | | - | 0.000 | 1.910 | |
| GBAD-T | WR | MCTSSA:Camp Pendleton, CA | 0.220 | - | | - | | - | | - | 0.000 | 0.220 | |
| GBAD-T | WR | MCSC:Quantico, VA | 0.128 | - | | - | | - | | - | 0.000 | 0.128 | |
| GBAD-T | C/FP | MCOTEA:Quantico, VA | 0.257 | - | | - | | - | | - | 0.000 | 0.257 | |
| JFIIT | SS/FP | RNB:Stafford, VA | 1.425 | - | | - | | - | | - | 0.000 | 1.425 | |
| JFIIT | WR | MCSC:Quantico, VA | 0.130 | - | | - | | - | | - | 0.000 | 0.130 | |
| Subtotal | | | 4.596 | 0.200 | | 0.200 | | - | | 0.200 | 0.000 | 4.996 | |

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|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2278: Air Defense Weapons System | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GBAD-T | C/FFP | MCSC:Quantico, Va | - | 0.791 | Oct 2011 | 0.791 | Oct 2012 | - | | 0.791 | 0.000 | 1.582 | |
| GBAD-T | MIPR | WSMR:NM | 0.872 | - | | - | | - | | - | 0.000 | 0.872 | |
| GBAD-T | MIPR | Not Specified:Aberdeen, MD | 0.047 | - | | - | | - | | - | 0.000 | 0.047 | |
| GBAD-T | C/FP | MCOTEA:Quantico, VA | 0.672 | - | | - | | - | | - | 0.000 | 0.672 | |
| GBAD-T | MIPR | NATC:NM | 0.710 | - | | - | | - | | - | 0.000 | 0.710 | |
| Subtotal | | | 2.301 | 0.791 | | 0.791 | | - | | 0.791 | 0.000 | 3.883 | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GBAD-T | C/FFP | SPAWAR:Charleston SC | - | 0.659 | Oct 2011 | 0.320 | Oct 2012 | - | | 0.320 | 0.000 | 0.979 | |
| GBAD-T | C/FP | MCSC:Quantico, VA | 0.524 | 0.446 | Oct 2011 | 0.385 | Oct 2012 | - | | 0.385 | 0.000 | 1.355 | |
| Subtotal | | | 0.524 | 1.105 | | 0.705 | | - | | 0.705 | 0.000 | 2.334 | |
| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 31.569 | 2.171 | | 1.993 | | - | | 1.993 | 0.000 | 35.733 | |
| Remarks | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2278: <i>Air Defense Weapons System</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2278: <i>Air Defense Weapons System</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|-----------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2278 | | | | |
| GBAD-T Milestone C | 3 | 2011 | 3 | 2011 |
| GBAD-T Full Rate Production | 3 | 2011 | 3 | 2011 |
| GBAD-T Fielding Decision | 1 | 2012 | 1 | 2012 |
| GBAD-T IOC | 1 | 2012 | 1 | 2012 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | |
|--|---------|---------|--------------|--|---------------|---------|---------|----------------------------------|---------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2510: MAGTF CSSE & SE | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 2510: MAGTF CSSE & SE | 32.568 | 43.185 | 25.231 | - | 25.231 | 4.476 | 4.677 | 4.696 | 4.395 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

(U) The Marine Air Ground Task Force (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 contributes to the Combatant Commander's Common Operating Picture to support rapid accurate decision making.

MARINE CORPS COMMON HARDWARE SUITE (MCHS) provides Commercial-Off-The-Shelf (COTS) workstations (desktop/laptop), servers and other IT hardware to support the Operating Force and other non-Navy Marine Corps Intranet (NMCI) Marine Corps customers. MCHS provides support for two principal groups: 1) Approximately 50 United States Marine Corps (USMC) Tactical and Functional Programs of Record that use COTS IT hardware as part of their fielded systems; and 2) Tactical and other Marine Corps customers not supported by NMCI such as Marine Corps Forces, Europe/Marine Corps Forces, Korea and stand-alone Marine Corps units and schoolhouses. The goal of the program is to enhance overall IT system interoperability and lower the total cost of ownership by centralizing procurement of COTS IT hardware, reducing the number of different configurations of computers, and providing worldwide integrated logistics support for all fielded MCHS hardware. Rapid technology insertion provides ability to develop, test, and evaluate COTS hardware and software configurations for rapid fielding purposes.

GLOBAL COMBAT SUPPORT SYSTEM-MARINE CORPS (GCSS-MC) is the physical implementation of the enterprise Information Technology (IT) architecture designed to support both improved and enhanced Marine Air Ground Task Force (MAGTF) Combat Support Services (CSS) functions and MAGTF Commander and Combatant Commanders/Joint Task Force (CC/JTF) combat support information requirements. The initial program includes all transactional CSS systems related to Supply Chain Management (SCM) and Enterprise Asset Management (EAM) functionality enabled with Service Management functions. When combined, these capabilities are referred to as Logistics Chain Management (LCM) or GCSS-MC/LCM. The primary goal of GCSS-MC/LCM is to provide the capabilities specified in the Logistics Operational Architecture (Log OA). The result of enabling the Log OA is the retirement of legacy applications. The GCSS-MC/LCM exposes timely mission information to Marine Corps operational and CSS commanders, CC/JTF commanders and their staffs and other authorized users. It exposes information interoperability and common logistics information applications and services across functional areas. GCSS-MC/LCM allows operating forces commanders to base decisions on complete logistics information and make decisions in concert with specific operational tasks.

The GCSS-MC/LCM program is procuring capabilities by increments. GCSS-MC/LCM Increment 1 is a subset of the total requirement that focuses on Logistics Management and Execution with Logistics Command and Control requirements necessary to perform those functions in a deployed environment. GCSS-MC/LCM Increment 1 is global in scope and it can be deployed under any circumstances, during peace or war, independent of geographical location. The GCSS-MC/LCM Increment 1 Capability Development Document (CDD), dated 25 May 2005 and approved in December 2005, establishes the requirements for the entire GCSS-MC portfolio. Key objectives of the CDD include the following: (1) Deliver integrated functionality across supply, maintenance, transportation, finance, engineering, health, acquisition and manpower systems in accordance with the Marine Corps Logistics Operational Architecture; (2) Provide timely information to Marine Corps operational and CSS commanders, CCs and Joint JTF commanders and their staffs and other authorized users; (3) Allow Operating Forces (OPFORS) commanders to base

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2510: <i>MAGTF CSSE & SE</i> |
| <p>decisions on complete logistics information and make decisions in concert with specific operational tasks; and (4) Provide users and operators of logistics processes access to information and applications across the spectrum of conflict regardless of location.</p> <p>TRANSPORTATION SYSTEMS PORTFOLIO (TSP) supports the various ongoing and continuing efforts to modernize legacy USMC logistics systems including joint interoperability testing and certification and development to ensure compliance with information assurance testing and certification requirements. Legacy systems include joint programs supporting deployment and sustainment of theater assets as well as existing USMC legacy systems. Joint interoperability testing and certification is an ongoing and continuous requirement that is critical to ensuring all TSP applications are interoperable with other Department of Defense and Joint Services systems. There are also ongoing and continuing efforts to ensure that the legacy TSP applications comply with the latest information assurance requirements. TSP applications are continually updating their security posture through software enhancements based upon the latest cyber threats. Also, mandatory DOD compliance with software patches ensure TSP systems are in compliance with new information assurance vulnerability assessments and ensure data integrity, confidentiality and availability.</p> <p>JOINT FORCE REQUIREMENTS GENERATOR II (JFRG II) is a Global Command and Control System (GCCS) software application designed to provide DOD with a Joint Services, state-of-the-art, integrated, and deployable Automated Information System (AIS) that supports strategic force movements. JFRG II provides rapid development of force data to satisfy operational planning and execution requirements. It serves as the essential link between service force requirements and validated/sourced unit data. JFRG II permits multi-level planning with entry of equipment and personnel data, transportation/movement data, and the phasing of the total force throughout the entire movement timeline. JFRG II contains an exhaustive joint data library and interfaces directly with the Joint Operation Planning and Execution System (JOPEs). JFRG II can generate standard, executive, and ad hoc reports, perform database queries, and export or import data from Transportation Coordinators' Automated Information for Movement System (TC-AIMS) II, MAGTF Deployment Support System (MDSS) II and JOPEs. JFRG II operates and functions in either a classified or unclassified environment.</p> <p>PUBLIC KEY INFRASTRUCTURE (PKI) provides security objects and mechanisms used by Public Key (PK)-enabled systems and applications. The primary products of PKI are PK certificates and other certified objects used in conjunction with PK certificates. In addition to PK certificates, PKI provides on-line services (e.g. on-line certificate status checking), and supplies authenticated attributes in PK certificates and/or attribute certificates. PKI is one of a number of security solutions used to protect information and provide attributes to enable critical resources in the Global Information Grid, and is used concurrently with other solutions (e.g. in-line network encryptors to implement the defense-in-depth concept.) In conjunction with PK-enabled applications, PKI is used for identification, authentication, data confidentiality and integrity, and non-repudiation security services. Additionally, PKI functionally will be expanded to the Secret Internet Protocol Router Network (SIPRNET).</p> <p>AUTOMATED IDENTIFICATION TECHNOLOGY (AIT) conducts research and development capabilities testing to expand and enhance options necessary to provide today's Commanders accurate information that allows better communication, coordinating, synchronization, and real-time logistics data transfer capabilities to programs that influence Warfighting evolutions. AIT devices, hardware and software's are continually evolving and RDT&E provides the necessary modernization progression to ensure that technologies deployed today meet the demands of the Commander's by providing faster, more reliable, increase data reliability and expedited logistics' architecture for Marine Corps-unique transportation, distribution and supply systems/software and applications. AIT forecast and plans to focus Web-basing, Web-enablement and Web Services software technology [i.e., machine-to-machine information exchanges between, our customers in the Military Services and Defense</p> | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2510: MAGTF CSSE & SE | | | | |
| agencies, and the Defense industry, based upon the open-standard Extensible Markup Language (XML), Simple Object Access Protocol (SOAP), Military-Standard (MIL-STD) formatted protocols]. There are three primary reasons why AIT is pursuing this direction: | | | | | | | |
| 1. Web-based applications dramatically reduce the costs associated with fielding new software mission capabilities. (Only a limited handful of central servers need to be updated rather than thousands of employees' desktop computers.) | | | | | | | |
| 2. Web-basing and Web Services make AITs software applications much more adaptable to the ongoing and future changes in the Marine Corps procurement and financial management systems that are being implemented in accordance with the Department's Business Enterprise Architecture. | | | | | | | |
| 3. AIT has found that Web-based application development is substantially less expensive than traditional client/server or mainframe-based application development. One of the reasons why Web-based development is less expensive is that Web-basing applications allows AIT to productively adapt large amounts of open source software packages with minimal or even zero acquisition and support costs. Also, this allows the Marine Corps to achieve their desired real-time supply chain information "reach-back" capabilities that may extend to the factory floors where parts, components,and systems are produced. | | | | | | | |
| BASE TELECOMMUNICATIONS INFRASTRUCUTRE (BTI) provides all Marine Corps installations with the base area network communications infrastructure that connects the end-user to the Defense Information Systems Agency (DISA) network. BTI sustains upgrades and enhances the telecommunications systems infrastructure for all Marine Corps Installations in order to meet the demands required to support the 5th Element of the MAGTF. BTI is designed to maintain industry currency as it relates to technological capabilities for all voice, video and data transport services via each installation's infrastructure. These data services include support for but are not limited to: Telephony (including voice over internet protocol), Enhanced 911, Video-Teleconferencing, Integrated Services Digital Network, Marine Corps Enterprise Network, Energy Monitoring Control Systems, Intrusion Detection Systems, Access Control Systems, Fire Alarm Control Networks and Fleet Training Systems. This includes supporting systems such as optical networks, telecommunications management systems, primary power, voice mail, teleconferencing, and outside plant infrastructure. | | | | | | | |
| ELECTRONIC MAINTENANCE SUPPORT SYSTEM (EMSS) is composed of several main components including Electronic Maintenance Devices (EMD), regional servers, deployment servers, charger racks, and ruggedized deployment cases. EMSS is a rugged organizational-level (O-level), light-weight, one-man portable maintenance device capable of supporting multiple platforms and systems across maintenance communities. EMSS provides a Commercial Off-The-Shelf (COTS) hardware device equipped with network interfaces, Built-In-Test/Built-In-Test Equipment (BIT/BITE) interfaces, and Software Defined Test Instrument (SDTI) General Purpose Electronic Test Equipment (GPETE) capabilities. These hardware capabilities will enable commercial or custom DoD and USMC software capabilities including Interactive Electronic Technical Manuals (IETMs), Computer Based Training (CBT), access to Subject Matter Experts (SMEs) over USMC networks, and other maintenance applications to be hosted on EMSS. With these capabilities, maintainers will make more informed decisions, thereby sustaining force readiness over time. | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Title: BASE TELECOM (BTI) | | | - | 0.454 | 0.460 | - | 0.460 |
| Articles: | | | | 0 | 0 | | 0 |
| FY 2012 Plans: | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2510: MAGTF CSSE & SE | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| FY12 Participation in the DISA Unified Capabilities (voice, video, collaboration, and data) pilot is critical to BTI modernization strategy. The RDT&E funds will be utilized for testing efforts in support of the DISA Unified Communications Everything over Ethernet effort. After the testing is reviewed by the Joint Interoperability Test Command (JITC), successfully evaluated products will be placed on the Approved Products List (APL). FY 2013 Base Plans: FY13 continued participation in the DISA Unified Capabilities (voice, video, collaboration, and data) pilot is critical to BTI modernization strategy. The RDT&E funds will be utilized for testing efforts in support of the DISA Unified Communications Everything over Ethernet effort. After the testing is reviewed by the Joint Interoperability Test Command (JITC), successfully evaluated products will be placed on the Approved Products List (APL). | | | | | | |
| Title: MARINE CORPS COMMON HARDWARE SUITE (MCHS) Articles: | | 1.464 0 | 1.610 0 | - | - | - |
| FY 2011 Accomplishments: FY11 MCHS conducted trend analysis on reported failures of fielded Commercial off-the-Shelf (COTS) hardware and to evaluate the ability of new products to meet Marine Corps needs. FY 2012 Plans: In FY12, RTD&E will continue to be used to conduct trend analysis on reported failures of fielded COTS hardware and rapid technology insertion which provides ability to develop, test, and evaluate COTS hardware and software configurations for rapid fielding purposes. | | | | | | |
| Title: GCSS-MC LOGISTICS CHAIN MANAGEMENT (GCSS-MC) Articles: | | 26.958 0 | 36.380 0 | 21.326 0 | - | 21.326 0 |
| FY 2011 Accomplishments: FY11 activities Increment 1, Release 1.2 activities include the completion of the Release 1.2 System Integration Development & Test (SIDT&E); preparation for the Follow-on Operational Test & Evaluation (FOT&E); MEF Transportability testing; and being Modular MAGTF System (MMS) design analysis. FY 2012 Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 2510: MAGTF CSSE & SE | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| FY12 activities include completion of the Increment 1, Release 1.2 Marine Expeditionary Force (MEF) SIDT&E, MEF Government Development Test & Evaluation (GDT&E) and MEF FOT&E. FY12 activities also include the start of the GCSS-MC baseline upgrade from Oracle eBusiness Suite Release 11 to Release 12. FY 2013 Base Plans: FY13 activities include the continuation of the GCSS-MC baseline upgrade from Oracle eBusiness Suite Release 11 to Release 12. | | | | | | |
| Title: TRANSPORTATION SYSTEMS PORTFOLIO (TSP) FY 2011 Accomplishments: FY11 TSP conducted Active RFID upgrades and Joint Interoperability Testing & Certification (JITC) for all application upgrades and releases for all the programs within the portfolio. FY 2012 Plans: During FY12 TSP will conduct Active RFID upgrades and JITC for all application upgrades and releases for all the programs within the portfolio. | | 0.542 Articles: 0 | 1.134 0 | - | - | - |
| Title: JOINT FORCES REQUIREMENT GENERATION II (JFRG II) FY 2011 Accomplishments: FY11 funds provided Technology Development to reach Milestone B. FY 2012 Plans: FY12 funds will continue to fund Technology Development to reach Milestone B. FY 2013 Base Plans: FY13 funds will be utilized to conduct Engineering & Manufacturing Development to reach Milestone C. | | 0.349 Articles: 0 | 0.260 0 | 0.175 0 | - | 0.175 0 |
| Title: PUBLIC KEY INFRASTRUCTURE (PKI) FY 2011 Accomplishments: FY11 PKI continued testing, correction of deficiencies, and implementation of PKI requirements for tactical applications as well as MCEITS and SIPRNET capabilities. FY 2012 Plans: | | 1.274 Articles: 0 | 1.547 0 | 1.214 0 | - | 1.214 0 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2510: MAGTF CSSE & SE | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| FY12 funding will provide for continued testing, correction of deficiencies, and implementation of PKI requirements for tactical applications as well as MCEITS and SIPRNET capabilities. | | | | | |
| FY 2013 Base Plans: FY13 funding will provide for continued testing, correction of deficiencies, and implementation of PKI requirements for tactical applications as well as MCEITS and SIPRNET capabilities. | | | | | |
| Title: AUTOMATED IDENTIFICATION TECHNOLOGY (AIT) Articles: FY 2011 Accomplishments: During FY11 the AIT Program Office worked with functional advocates and Capability, Development and Integration (CD&I) to solidify the requirement to develop an enterprise/consolidated AIT infrastructure capability in order to reduce future maintenance costs. Current infrastructure supports both active radio-frequency identification (aRFID) and passive RFID (pRFID) using multiple middleware solutions and contracts. The AIT PO awarded a contract in order to research and develop an enterprise/consolidated AIT capability taking advantage of new technology and middleware. FY 2012 Plans: During FY12 AIT will upgrade the RFID infrastructure to include a mobile capability. Initiate development and testing of AIT device interfaces with GCSS-MC. Expand communications capabilities for the active RFID (aRFID) infrastructure to include cellular and broadband capabilities. AIT will expand the aRFID infrastructure to take advantage of newer technology to allow non-nodal tracking in response to after-action comments from Iraq. AIT will provide the ability to control devices on the edgware and provide common infrastructure middleware capability to support multiple AIT technologies FY12 - FY16. | 1.981 0 | 1.800 0 | - | - | - |
| Title: ELECTRONIC MAINTENANCE SUPPORT SYSTEM (EMSS) Articles: FY 2013 Base Plans: In FY13 the EMSS program will begin Research and Development for the Block II version of the Electronic Maintenance Support Systems to include all subcomponents. The program office will conduct studies and initiate the transition to the Block II using a Pre-Planned Product Improvement (P3I) version of EMSS. Focus areas will be deployed wireless capability, advanced diagnostics software applications, and IETM software development. | - | - | 2.056 0 | - | 2.056 0 |
| Accomplishments/Planned Programs Subtotals | 32.568 | 43.185 | 25.231 | - | 25.231 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 2510: MAGTF CSSE & SE | |

C. Other Program Funding Summary (\$ in Millions)

| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
|---------------------------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| • PMC/BLI 463000 MCHS: <i>MCHS</i> | 22.404 | 11.162 | 19.570 | 0.000 | 19.570 | 2.880 | 2.079 | 2.079 | 2.245 | Continuing | Continuing |
| • PMC/BLI 461700 GCSS: <i>GCSS-MC</i> | 26.988 | 13.897 | 24.034 | 0.000 | 24.034 | 5.541 | 3.228 | 16.565 | 7.519 | Continuing | Continuing |
| • PMC/BLI 463000 PKI: <i>PKI</i> | 0.163 | 0.001 | 0.001 | 0.000 | 0.001 | 0.000 | 0.000 | 0.428 | 0.000 | Continuing | Continuing |
| • PMC/BLI 461700 AIT: <i>AIT</i> | 4.753 | 3.990 | 0.157 | 0.000 | 0.157 | 0.163 | 0.351 | 0.163 | 0.246 | Continuing | Continuing |
| • PMC/BLI 463500 BTI: <i>BTI</i> | 11.730 | 21.151 | 22.135 | 0.000 | 22.135 | 18.567 | 19.527 | 19.877 | 20.228 | Continuing | Continuing |
| • PMC/BLI 418100: <i>EMSS</i> | 1.996 | 2.016 | 7.425 | 0.000 | 7.425 | 5.908 | 4.696 | 4.604 | 4.367 | Continuing | Continuing |
| • PMC/BLI 463500 PKI: <i>PKI</i> | 0.998 | 1.184 | 1.318 | 0.000 | 1.318 | 1.304 | 1.450 | 1.494 | 1.607 | Continuing | Continuing |
| • PMC/BLI 463000 TSP: <i>TSP</i> | 0.220 | 0.873 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.093 |

D. Acquisition Strategy

MARINE CORPS HARDWARE SUITE (MCHS) ensures computer hardware in the Operating Forces keeps pace with industry computer hardware technical improvements. Analyses of technical alternatives are periodically required in order to determine how to best meet emerging customer requirements.

GLOBAL COMBAT SUPPORT SYSTEM-MARINE CORPS (GCSS-MC) is pursuing an Evolutionary Acquisition (EA) strategy in order to field operationally suitable and supportable capabilities in the shortest time possible that meets the Logistics Advocate goals. 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 strengths and weaknesses of the fielded system. In addition to quicker fielding, an EA approach is particularly well suitable for software intensive programs and offers these benefits: rapid delivery of an initial capability with the explicit intent of delivering continuously improving capabilities in the future and a reduction in the "cycle time" from identification of emergent user requirements, priorities and fielding. The GCSS-MC acquisition strategy will deliver capabilities in increments. Each increment capability will follow a complete acquisition process in accordance with the DOD 5000 publications and OSD's Enterprise Integration roadmap. Increments will include emergent user priorities, advanced technology improvements and expanded functionality. Each increment will repeat the complete acquisition program cycle going through a milestone (MS) C Full Rate Production Decision Review. Increment 1 is divided into two major independent releases: Enterprise Release 1.1 and Deployed Access Release 1.2. This approach differs from the original plan of delivering one release due to the technical complexities related to the overall scope of the solution. More substantial software improvement/system upgrades will be fielded with each Increment as required and prioritized by the user community.

TRANSPORTATION SYSTEMS PORTFOLIO (TSP) conducts research and development currently executed under multiple contracts ending at various times across the FYDP. These contracts support the testing of the joint deployment and sustainment systems along with the USMC legacy systems.

JOINT FORCES REQUIREMENT GENERATOR II (JFRG II) conducts research and development currently executed under a five-year contract ending August 2011. Open Competition for a follow on contract to continue supporting testing of software for functionality with service users then passed on to Defense Information Systems

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2510: <i>MAGTF CSSE & SE</i> |
| <p>Agency (DISA) for security and interoperability testing and released as a Global Command and Control Systems (GCCS) mission application. This is conducted based on a six-month release schedule of GCCS, with a six-month lead time for each JFRG II version release.</p> <p>PUBLIC KEY INFRASTRUCTURE (PKI) is a DOD ACAT IAM Program. At the service level, the USMC PKI program is being managed as an Abbreviated Acquisition Program. Based on an Assistant Secretary of Defense Acquisition Decision Memorandum, DOD PKI development will be conducted through a series of block upgrades. The functional enhancement, changes will result in increased capability and functionality for PKI and increase the levels of security and assurance which affects mitigation of identified risks. There are thirteen functional and five assurance enhancements. Additionally, PKI functionality will be expanded to the SIPRNET.</p> <p>AUTOMATED IDENTIFICATION TECHNOLOGY (AIT) hardware in the Operating Forces keeps pace with industry computer hardware technical improvements. AIT will support all aspects of active Radio Frequency Identification (aRFID) and passive RFID (pRFID). AIT evaluates emerging technologies, new equipment, and performs integration analysis and testing.</p> <p>BASE TELECOMMUNICATIONS INFRASTRUCTURE (BTI) provides all Marine Corps installations with the base area network communications infrastructure that connects the end-user to the DISA network. BTI sustains upgrades and enhances the telecommunications systems infrastructure for all Marine Corps Installations in order to meet the demands required to support the 5th Element of the Marine Air Ground Task Force (MAGTF). Participation in the DISA Unified Capabilities (voice, video, collaboration, and data) pilot is critical to BTI modernization strategy. The RDT&E funds will be utilized for testing efforts in support of the DISA Unified Communications Everything over Ethernet effort. After the testing is reviewed by the JITC, successfully evaluated products will be placed on the Approved Products List (APL). The BTI PO currently utilizes various multi-year Blanket Purchase Agreement contracts to procure the test equipment and products being evaluated.</p> <p>ELECTRONIC MAINTENANCE SUPPORT SYSTEM (EMSS) will conduct technology development, market research, and prototype testing for Block II capabilities required for MS B to be acheived 4th quarter FY14.</p> <p>E. Performance Metrics N/A</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2510: MAGTF CSSE & SE | | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| Technology Development (EMSS) | TBD | NAVESEA:Washington, District of Columbia | - | - | | 0.500 | Dec 2012 | - | | 0.500 | Continuing | Continuing | Continuing | |
| GCSS LCM Increment 1 Application | C/T&M | Oracle USA:Reston, VA | 178.985 | 14.180 | Oct 2011 | - | | - | | - | Continuing | Continuing | Continuing | |
| GCSS LCM Increment 1 Training Development | C/FP | EDO:Stafford, VA | 2.500 | - | | - | | - | | - | Continuing | Continuing | Continuing | |
| PKI | C/FFP | Various:Various | 6.815 | 1.547 | Feb 2012 | 1.214 | Feb 2013 | - | | 1.214 | Continuing | Continuing | Continuing | |
| AIT | C/FFP | TBD:TBD | 6.983 | 1.800 | Aug 2012 | - | | - | | - | Continuing | Continuing | Continuing | |
| VAR | Various | Various:Various | 17.601 | - | | - | | - | | - | Continuing | Continuing | Continuing | |
| GCSS LCM Oracle eBusiness Suite Release 12 Upgrade | C/FP | TBD:TBD | - | 22.200 | Mar 2012 | 21.326 | Nov 2012 | - | | 21.326 | Continuing | Continuing | Continuing | |
| Subtotal | | | 212.884 | 39.727 | | 23.040 | | - | | 23.040 | | | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| Program Support (EMSS) | WR | NSWC, Crane:Crane, Indiana | - | - | | 0.563 | Dec 2012 | - | | 0.563 | Continuing | Continuing | Continuing | |
| Various Studies (EMSS) | Various | Various:Various | - | - | | 0.993 | Mar 2013 | - | | 0.993 | Continuing | Continuing | Continuing | |
| VAR | Various | Various:Various | 1.213 | 1.394 | Jul 2012 | 0.175 | Jul 2013 | - | | 0.175 | Continuing | Continuing | Continuing | |
| Subtotal | | | 1.213 | 1.394 | | 1.731 | | - | | 1.731 | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| MCHS | WR | SPAWAR:Charleston, SC | 11.141 | 1.610 | Jan 2012 | - | | - | | - | Continuing | Continuing | Continuing | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 2510: MAGTF CSSE & SE | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GCSS LCM Increment 1 DT & OT Evaluations | WR | MCOTEA:Quantico, VA | 10.149 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Various | Various | Various:Various | 13.799 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| BTI | C/FFP | TBD:TBD | - | 0.454 | Sep 2012 | 0.460 | Sep 2013 | - | | 0.460 | Continuing | Continuing | Continuing |
| Subtotal | | | 35.089 | 2.064 | | 0.460 | | - | | 0.460 | | | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| GCSS LCM PMO Support | C/FFP | TASC:Stafford, VA | 14.745 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| GCSS LCM PMO Support | C/FFP | Various:Various | 12.843 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Various | Various | Various:Various | 3.980 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Subtotal | | | 31.568 | - | | - | | - | | - | | | |
| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 280.754 | 43.185 | | 25.231 | | - | | 25.231 | | | |
| Remarks | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2510: <i>MAGTF CSSE & SE</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2510: <i>MAGTF CSSE & SE</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 2510: <i>MAGTF CSSE & SE</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 2510 | | | | |
| GCSS-MC Logistics Chain Mgt Increment 1 Limited Release AD | 4 | 2011 | 4 | 2011 |
| GCSS-MC Logistics Chain Mgt Increment 1 FDD | 1 | 2013 | 1 | 2013 |
| GCSS-MC Logistics Chain Mgt Increment 1 FD | 2 | 2013 | 2 | 2013 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 3099: Radar System | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 3099: Radar System | 24.164 | 33.807 | 25.677 | - | 25.677 | 17.467 | 11.668 | 7.535 | 7.987 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

Long Range Radar (AN/TPS-59) - The AN/TPS-59 is a three dimensional ground-based sensor that can detect and track long range Air Breathing Targets (ABT) at ranges of 300 nautical miles and Tactical Ballistic Missiles (TBM) at ranges of 400 nautical miles. The system is experiencing increasing obsolescence and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. The program will use a Post Production Support (PPS) contract to develop engineering changes to resolve DMSMS and incorporate Mode 5 Identification Friend or Foe (IFF) per DOD mandate.

Family of Target Acquisition Systems (FTAS) - The FTAS provides the MAGTF the capability to locate, identify and attack enemy indirect fire weapons systems and observe and direct friendly artillery fire. The FTAS consists of the AN/TPQ-46 Firefinder radar, the AN/TPQ-48 Lightweight Counter Mortar Radar and the AN/TSQ-267 Target Processing Set. The FTAS is critical in the execution of counterfire and the integration of target acquisition information enabling attack by MAGTF assets. The FTAS also provides artillery firing units the ability to conduct artillery registration and other friendly fire missions. The FTAS encompasses the equipment required to support target acquisition within the target acquisition platoon and is resident in the headquarters battery of each artillery regiment. The program will continue to address engineering issues that arise due to DMSMS items within the FTAS.

Short/Medium Range Air Defense Radar (SHORAD) - The SHORAD AN/TPS-63 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 three-dimensional, long-range, air surveillance radar system. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system reliability with the specific purpose of meeting increased fleet operational requirements.

Three Dimensional Expeditionary Long Range Radar (3DELRR) - Marine Corps personnel are providing technical, engineering, and programmatic support to the U.S. Air Force 3DELRR program. The program support consists of program management, engineering, logistics, test, and requirements activities. 3DELRR is a potential replacement for the AN/TPS-59.

Virtual Warfare Center (VWC) Support - The project team conducts fully interactive simulated wargames at the Virtual Warfare Center (VWC) in St. Louis, MO, in order to quantify family of systems performance and how it impacts effectiveness in the Integrated Air and Missile Defense (IAMD) mission area. The VWC provides a venue for the exploration of advanced engagement concepts focused on persistent forward naval engagements in support of the MAGTF and the development of associated Joint and Service specific TTPs. VWC support encompasses a set of integrated fire control (IFC) activities that also includes concept/CONOPS development, family of systems architecture development, and systems engineering/integration efforts.

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 3099: Radar System | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Title: AN/TPS-59 : Develop Engineering Change Proposals | | 9.363 | 12.462 | 10.706 | - | 10.706 |
| Articles: | | 0 | 0 | 0 | | 0 |
| Description: The program will address DMSMS issues by continuing use of a Post Production Support (PPS) contract. The AN/TPS-59 modification will address DMSMS and the DOD mandated Mode 5 Implementation of the AN/TPS-59 Radar System. | | | | | | |
| FY 2011 Accomplishments: Lockheed Martin - Data Processor Group Fielding, Software Maintenance Update Fieldings, IFF Mode 5, 1A5 Antenna Power Cabinet Engineering Change Proposal/Delivery Orders Awarded, and DMSMS reports. | | | | | | |
| FY 2012 Plans: Lockheed Martin - Continue development of IFF Mode 5, 1A5 Antenna Power Cabinet Engineering Change Proposals, and software maintenance releases. Initiate Receiver/Exciter ECP to address DMSMS/Obsolescence issues. | | | | | | |
| FY 2013 Base Plans: Lockheed Martin - IFF Mode 5, 1A5 Antenna Power Cabinet, Receiver/Exciter Engineering Change Proposal, and software maintenance releases. MS-C scheduled for 2nd QTR FY14. | | | | | | |
| Title: AN/TPS-59 : Management Service Support | | 6.913 | 7.000 | 4.500 | - | 4.500 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: MCSC - Program Management Support. | | | | | | |
| FY 2012 Plans: MCSC - Program Management Support. | | | | | | |
| FY 2013 Base Plans: MCSC - Program Management Support (reduced effort based on PM's prioritization of requirements). | | | | | | |
| Title: AN/TPS-59 : Engineering and Technical Support | | 4.897 | 6.738 | 4.549 | - | 4.549 |
| Articles: | | 0 | 0 | 0 | | 0 |
| FY 2011 Accomplishments: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 3099: Radar System | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| MCOTEA/MCTSSA - Data Processing Group and Software Maintenance Testing events, MITRE/NSWC Dahlgren - Engineering support, Lockheed Martin - PMO/IPT, SPAWAR - IA Support, MCCDC CD&I - Requirements support, NAWC Pax River - Mode 5 support. FY 2012 Plans: MCOTEA/MCTSSA - Software Maintenance Testing events, MITRE/NSWC Dahlgren - Engineering support, Lockheed Martin - PMO/IPT, SPAWAR - IA Support, MCCDC CD&I - Requirements support, NAWC Pax River - Mode 5 support. FY 2013 Base Plans: MCOTEA/MCTSSA - Mode 5 and Software Maintenance Testing events, MITRE/NSWC Dahlgren - Engineering support, Lockheed Martin - PMO/IPT, SPAWAR - IA Support, MCCDC CD&I - Requirements support, NAWC Pax River - Mode 5 support. (Reduced effort for IA support - prioritization of efforts directed towards Mode 5) | | | | | |
| Title: SHORAD: Engineering and Technical Support Articles: Description: Provide configuration management to the current systems by on-site visits and field configuration surveys. Continuing development effort to resolve ongoing DMSMS and obsolescence issues. FY 2011 Accomplishments: TIU interface and Baseline Study delivery orders awarded and conducted. FY 2012 Plans: Correct DMSMS and obsolescence issues based on results of Baseline/Life Extension Study. FY 2013 Base Plans: Continue resolving DMSMS and obsolescence issues based on results of Baseline/Life Extension Study. | 1.186 0 | 0.205 0 | 0.489 0 | - | 0.489 0 |
| Title: FTAS: Engineering and Technical Support Articles: FY 2011 Accomplishments: NSWC Dahlgren - Engineering Support for the Family of Target Acquisition systems to support Sensor Management and Collaboration Tool (SMACT) Development, and Government liason with Fires Software | 0.575 0 | 0.546 0 | 0.646 0 | - | 0.646 0 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | PROJECT 3099: Radar System | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | |
| | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Engineering Directorate (FSED) Ft. Sill. MCSC Albany - Program Travel in support of Equipment and Logistics SME. FY 2012 Plans: NSWC Dahlgren - Engineering Support for the Family of Target Acquisition systems to support Sensor Management and Collaboration Tool (SMACT) Development, and Government liason with Fires Software Engineering Directorate (FSED) Ft. Sill. Aberdeen Proving Ground (APG)- M116A3 MOD Trailer Capabilities Validation. Tobyhanna Army Depot (TYAD)- AN/TPQ-46 MILTOPE Computer Refresh Engineering Change Proposal (ECP). MCSC Albany - Program Travel in support of Equipment and Logistics SME. FY 2013 Base Plans: NSWC Crane - ECP development on the AN/TSQ-267. NSWC Dahlgren - Engineering Support for the Family of Target Acquisition systems, and Government liason with Fires Software Engineering Directorate (FSED) Ft. Sill. Tobyhanna Army Depot (TYAD)- AN/TPQ-46 MILTOPE Computer Refresh Engineering Change Proposal (ECP). MCSC Albany - Program Travel in support of Equipment and Logistics SME. | | | | | |
| Title: FTAS: Management Service Support Articles: | 1.230 0 | - | - | - | - |
| FY 2011 Accomplishments: MCSC- Program Management Support. | | | | | |
| Title: 3DELRR: Testing and Requirements Support Articles: | - | 0.280 0 | 0.240 0 | - | 0.240 0 |
| FY 2012 Plans: MCOTEA - Testing support, MCCDC CD&I - requirements support. FY 2013 Base Plans: MCOTEA - Testing support, MCCDC CD&I - requirements support. | | | | | |
| Title: 3DELRR: Management Service Support Articles: | - | 1.745 0 | 1.611 0 | - | 1.611 0 |
| FY 2012 Plans: MCSC - Program Management and Technical Support. FY 2013 Base Plans: | | | | | |

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|--|---------|---------|--|----------------|------------------|-------------------------------|---------------------|---------|-----------------|---------------------|------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | DATE: February 2012 | | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | PROJECT 3099: Radar System | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| MCSC - Program Management and Technical Support. | | | | | | | | | | | |
| Title: VWC: Testing Support | | | | | | | - | 4.831 | 2.936 | - | 2.936 |
| Articles: | | | | | | | | 0 | 0 | | 0 |
| FY 2012 Plans: FY11: Effort was shut down from March-September 2011. Automated Battle Management Aides (ABMA) analysis was conducted. Resumed USMC participation in the Nimble Fire exercise. Delivered the USMC Operational Concept for Integrated Fire Control (IFC) Capability document. Delivered the USMC Integrated Air and Missile Defense (IAMD) Architecture Phase I products. FY12: Conduct fully interactive simulated wargames (Nimble Fire) at the Virtual Warfare Center (VWC) in St. Louis, MO, in order to quantify family of systems performance and how it impacts effectiveness in the Integrated Air and Missile Defense (IAMD) mission area. Deliver USMC IFC architecture Phase II products. Conduct systems integration of IFC related systems in analysis venues. Conduct systems engineering of IFC related C2, sensors, networks, and weapons. Transition technical workspace to new facility as part of the BRAC. | | | | | | | | | | | |
| FY 2013 Base Plans: Continuation of simulated wargames at the Virtual Warfare Center (VWC) in St. Louis, MO, in order to quantify family of systems performance and how it impacts effectiveness in the Integrated Air and Missile Defense (IAMD) mission area. | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | 24.164 | 33.807 | 25.677 | - | 25.677 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| • PMC/465003: AN/TPS-59 | 10.993 | 49.799 | 30.901 | 8.015 | 38.916 | 20.009 | 18.926 | 26.996 | 31.796 | Continuing | Continuing |
| • PMC/465005: FTAS | 0.159 | 5.388 | 3.145 | 0.000 | 3.145 | 2.157 | 2.228 | 2.284 | 2.332 | Continuing | Continuing |
| • PMC/465007: SHORAD | 0.500 | 7.425 | 3.685 | 0.000 | 3.685 | 1.713 | 0.976 | 1.421 | 0.728 | Continuing | Continuing |
| D. Acquisition Strategy | | | | | | | | | | | |
| Long Range Radar (AN/TPS-59) - The AN/TPS-59 is a three dimensional ground-based sensor that can detect and track long range Air Breathing Targets (ABT) at ranges of 300 nautical miles and Tactical Ballistic Missiles (TBM) at ranges of 400 nautical miles. The system is experiencing increasing obsolescence and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. The program will use a Post Production Support (PPS) contract to develop engineering changes to resolve DMSMS and incorporate Mode 5 Identification Friend or Foe (IFF) per DOD mandate. | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 3099: <i>Radar System</i> |
| <p>Family of Target Acquisition Systems (FTAS) - The FTAS provides the MAGTF the capability to locate, identify and attack enemy indirect fire weapons systems and observe and direct friendly artillery fire. The FTAS consists of the AN/TPQ-46 Firefinder radar, the AN/TPQ-48 Lightweight Counter Mortar Radar and the AN/TSQ-267 Target Processing Set. The FTAS is critical in the execution of counterfire and the integration of target acquisition information enabling attack by MAGTF assets. The FTAS also provides artillery firing units the ability to conduct artillery registration and other friendly fire missions. The FTAS encompasses the equipment required to support target acquisition within the target acquisition platoon and is resident in the headquarters battery of each artillery regiment. The program will continue to address engineering issues that arise due to DMSMS items within the FTAS.</p> <p>Short/Medium Range Air Defense Radar (SHORAD) - The SHORAD AN/TPS-63 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 three-dimensional, long-range, air surveillance radar system. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system reliability with the specific purpose of meeting increased fleet operational requirements.</p> <p>Three Dimensional Expeditionary Long Range Radar (3DELRR) - Marine Corps personnel are providing technical, engineering, and programmatic support to the U.S. Air Force 3DELRR program. The program support consists of program management, engineering, logistics, test, and requirements activities. 3DELRR is a potential replacement for the AN/TPS-59.</p> <p>Virtual Warfare Center (VWC) Support - The project team conducts fully interactive simulated wargames at the Virtual Warfare Center (VWC) in St. Louis, MO, in order to quantify family of systems performance and how it impacts effectiveness in the Integrated Air and Missile Defense (IAMD) mission area. The VWC provides a venue for the exploration of advanced engagement concepts focused on persistent forward naval engagements in support of the MAGTF and the development of associated Joint and Service specific TTPs. VWC support encompasses a set of integrated fire control (IFC) activities that also includes concept/CONOPS development, family of systems architecture development, and systems engineering/integration efforts.</p> <p><u>E. Performance Metrics</u> Milestone Reviews</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | | |
|--|------------------------|------------------------------------|------------------------|---------|--|--------------|------------|-------------|-------------------------------|---------------|---------------------|------------|--------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 3099: Radar System | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| AN/TPS-59 | C/CPFF | LOCKHEED MARTIN:SYRACUSE, NY | 61.938 | 12.462 | Oct 2011 | 10.706 | Oct 2012 | - | | 10.706 | 0.000 | 85.106 | | |
| SHORAD | C/CPFF | NORTHROP GRUMMAN:WARNER ROBINS, GA | 1.444 | 0.205 | Jan 2012 | 0.489 | Jan 2013 | - | | 0.489 | 0.000 | 2.138 | | |
| Subtotal | | | 63.382 | 12.667 | | 11.195 | | - | | 11.195 | 0.000 | 87.244 | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| AN/TPS-59 | WR | NAWCAD:PAX RIVER, MD | - | 1.000 | Oct 2011 | 0.550 | Oct 2012 | - | | 0.550 | 0.000 | 1.550 | | |
| AN/TPS-59 | C/CPFF | MCOTEA:QUANTICO | 0.340 | 0.350 | Oct 2011 | 0.300 | Oct 2012 | - | | 0.300 | 0.000 | 0.990 | | |
| AN/TPS-59 | C/CPFF | MCCDC CDI:QUANTICO | 0.400 | 0.388 | Apr 2012 | 0.356 | Apr 2013 | - | | 0.356 | 0.000 | 1.144 | | |
| AN/TPS-59 | C/CPFF | NSWCDD:MCSC | 1.763 | 2.250 | Jan 2012 | 1.400 | Jan 2013 | - | | 1.400 | 0.000 | 5.413 | | |
| AN/TPS-59 | C/CPFF | SPAWAR:MCSC | 1.494 | 1.750 | Feb 2012 | 0.950 | Feb 2013 | - | | 0.950 | 0.000 | 4.194 | | |
| AN/TPS-59 | C/CPFF | MITRE:BEDFORD, MA | 1.925 | 1.000 | Oct 2011 | 1.000 | Oct 2012 | - | | 1.000 | 0.000 | 3.925 | | |
| FTAS | WR | NSWC:DAHLGREN | 5.883 | 0.280 | Jan 2012 | 0.250 | Jan 2013 | - | | 0.250 | 0.000 | 6.413 | | |
| FTAS | MIPR | AMRY CECOM:ABERDEEN, MD | 2.418 | - | | - | | - | | - | 0.000 | 2.418 | | |
| FTAS | MIPR | APG:ABERDEEN, MD | - | 0.100 | Feb 2012 | - | | - | | - | 0.000 | 0.100 | | |
| FTAS | MIPR | TYAD:TOBYHANNA, PA | - | 0.116 | Feb 2012 | 0.048 | Feb 2013 | - | | 0.048 | 0.000 | 0.164 | | |
| FTAS | WR | NSWC:CRANE, IN | 1.850 | - | | 0.298 | Oct 2012 | - | | 0.298 | 0.000 | 2.148 | | |
| FTAS | Various | MCSC:QUANTICO | 1.974 | 0.050 | Oct 2011 | 0.050 | Oct 2012 | - | | 0.050 | 0.000 | 2.074 | | |
| 3DELRR | C/CPFF | MCOTEA:QUANTICO | - | 0.138 | Mar 2012 | 0.113 | Mar 2013 | - | | 0.113 | 0.000 | 0.251 | | |
| 3DELRR | Various | HQMC CD&I:HQMC | - | 0.142 | Mar 2012 | 0.120 | Mar 2013 | - | | 0.120 | 0.000 | 0.262 | | |

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|--|------------------------|--------------------------------|------------------------|--|------------|--------------|------------|-------------------------------|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 3099: Radar System | | | | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| VWC | C/CPFF | ONR:ST. LOUIS, MO | - | 4.831 | Oct 2011 | 2.936 | Oct 2012 | - | | 2.936 | 0.000 | 7.767 | |
| Subtotal | | | 18.047 | 12.395 | | 8.371 | | - | | 8.371 | 0.000 | 38.813 | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| AN/TPS-59 | C/CPFF | MCSC:QUANTICO | 13.654 | 7.000 | Dec 2011 | 4.500 | Dec 2012 | - | | 4.500 | 0.000 | 25.154 | |
| AN/TPS-59 (3DELRR) | C/CPFF | GENERAL DYNAMICS:QUANTICO | 2.000 | - | | - | | - | | - | 0.000 | 2.000 | |
| FTAS | WR | MCSC:QUANTICO | 0.504 | - | | - | | - | | - | 0.000 | 0.504 | |
| 3DELRR | C/CPFF | GENERAL DYNAMICS:QUANTICO | - | 1.745 | Dec 2011 | 1.611 | Dec 2012 | - | | 1.611 | 0.000 | 3.356 | |
| Subtotal | | | 16.158 | 8.745 | | 6.111 | | - | | 6.111 | 0.000 | 31.014 | |
| | | | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 97.587 | 33.807 | | 25.677 | | - | | 25.677 | 0.000 | 157.071 | |
| Remarks | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 3099: <i>Radar System</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 3099: <i>Radar System</i> |
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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 3099: <i>Radar System</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 3099: <i>Radar System</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|----------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 3099 | | | | |
| AN/TPS-59 PPM I IOC | 4 | 2011 | 4 | 2011 |
| AN/TPS-59 PPM I FOC | 2 | 2012 | 2 | 2012 |
| AN/TPS-59 PPM II MS-C | 2 | 2014 | 2 | 2014 |
| AN/TPS-59 PPM II IOC | 1 | 2015 | 1 | 2015 |
| AN/TPS-59 PPM II FOC | 1 | 2016 | 1 | 2016 |
| FTAS TPS Fielding Decision | 2 | 2011 | 2 | 2011 |
| FTAS TPS IOC | 2 | 2011 | 2 | 2011 |
| FTAS TPS FOC | 4 | 2011 | 4 | 2011 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 9C89: Marine Ground-Air Radar | | | |
| COST (\$ in Millions) | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| 9C89: Marine Ground-Air Radar | 57.813 | 106.654 | - | - | - | - | - | - | - | 0.000 | 164.467 |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | |
| Ground/Air Task Oriented Radar (G/ATOR) (formerly known as the Multi-Role Radar System (MRRS)) is an expeditionary, 3-dimensional, high-mobility, multi-purpose wheeled vehicle, short/medium range multi-role radar designed to detect cruise missiles, air breathing targets, rockets, mortars, and artillery. MRRS and GWLR (Ground Weapons Locating Radar) merged into a single requirement/capability (G/ATOR) and will replace an aging fleet of single mission legacy radar systems. G/ATOR will support air defense, air surveillance, counter-battery/target acquisition, aviation radar tactical enhancements and the final evolution will also support the Air Traffic Control mission. This project was funded under project C3099 prior to FY 2010 and was moved to Program Element 0204460M/ Project 9C89 beginning in FY13. | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Title: *G/ATOR: Contractor Technical, Development Engineering/EDM | | | | | | | 42.090 | 77.682 | - | - | - |
| Articles: | | | | | | | 0 | 0 | | | |
| FY 2011 Accomplishments: Finished REG Integration and Test (I&T), conduct Software Qualification Testing (SQT) and start System I&T and Performance Qualification Testing (PQT). | | | | | | | | | | | |
| FY 2012 Plans: Finish System I&T, conduct Environmental Qualification Test (EQT), finish PQT, deliver Engineering Development Model (EDM) to the Government (DD250 sign off), start Anti-Tamper (AT) planning, assist the government in development of the LRIP configuration in support of Transition to LRIP, conduct Production Readiness Review (PRR) and begin producibility enhancement efforts to include design, prototype development and integration/regression testing of Gallium Nitride (GaN) based Transmit/Receive (T/R) modules and associated technology insertion efforts. | | | | | | | | | | | |
| Title: *G/ATOR: Test and Evaluation | | | | | | | 2.822 | 9.200 | - | - | - |
| Articles: | | | | | | | 0 | 0 | | | |
| FY 2011 Accomplishments: Finished REG Integration and Test (I&T), conduct Software Qualification Testing (SQT), start Performance Qualification Testing (PQT). | | | | | | | | | | | |
| FY 2012 Plans: | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | PROJECT 9C89: Marine Ground-Air Radar | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
| Finish System I&T, conduct Environmental Qualification Test (EQT), finish PQT, provide support for the beginning of Developmental Testing 1B (DT1B). | | | | | | |
| Title: *G/ATOR: Program Office Management & Travel Costs Articles: FY 2011 Accomplishments: Continued travel efforts in support of system development and test. FY 2012 Plans: Continue travel efforts in support of system development and test. | | 0.150 0 | 0.357 0 | - | - | - |
| Title: *G/ATOR: Government Technical Support Articles: FY 2011 Accomplishments: Continued support from these activities to enable program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC PHD, MARCORSYSCOM and MCOTEA FY 2012 Plans: Continue support from these activities to enable program execution; MITRE, NSWC Dahlgren, NSWC Crane, NSWC PHD, MARCORSYSCOM and MCOTEA | | 7.151 0 | 10.627 0 | - | - | - |
| Title: *G/ATOR: Engineering, Management, & Logistics Support Articles: FY 2011 Accomplishments: Continued engineering, management & logistics program office support from General Dynamics Information Technology (GDIT). FY 2012 Plans: Finish engineering, management & logistics program office support under existing CEOSS contract with GDIT. Award new contract and continue engineering, management & logistics program office support with new CEOSS contract vehicle. | | 5.600 0 | 8.788 0 | - | - | - |
| Accomplishments/Planned Programs Subtotals | | 57.813 | 106.654 | - | - | - |

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|--|---------|---------|-----------------|--|------------------|---------|---------|--|---------------------|---------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy | | | | | | | | | DATE: February 2012 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 9C89: Marine Ground-Air Radar | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To Complete | Total Cost |
| • PMC/465000: GRND/AIR TASK ORIENTED RADAR | 0.000 | 4.246 | 90.348 | 0.000 | 90.348 | 109.025 | 80.310 | 254.185 | 258.581 | Continuing | Continuing |
| D. Acquisition Strategy | | | | | | | | | | | |
| The Ground/Air Task Oriented Radar (G/ATOR), formerly known as Multi-Role Radar System (MRRS) will fill the MRRS and GWLR requirements. Five legacy systems (AN/TPS-63, AN/UPS-3, AN/MPQ-62, AN/TPS-73 and AN/TPQ-46A) will be replaced by a single material design that offers an opportunity to reduce development cost and combine training and logistics assets. MRRS Aviation systems replace the AN/TPS-63, AN/MPQ-62 and AN/TPS-73 systems, as well as additional systems in support of the Short Range Air Defense (SHORAD) mission; MRRS Ground system is a one for one replacement of the AN/TPQ-46A. The Engineering Manufacturing Development (EMD) phase allows for technology insertion due to obsolescence and technology growth issues. As Tactical Enhancements become available, fielded systems will be backfitted. Two Engineering Development Models (EDM), (one Contractor, one Government), will be developed during the EMD phase and flowed down to support builds. | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| N/A | | | | | | | | | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | | DATE: February 2012 | | | |
|---|------------------------|--|------------------------|---------|---|--------------|------------|-------------|-------------------------------|---------------|---------------------|------------|--------------------------|--|
| APPROPRIATION/BUDGET ACTIVITY | | | | | R-1 ITEM NOMENCLATURE | | | | PROJECT | | | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | | PE 0206313M: Marine Corps Comms Systems | | | | 9C89: Marine Ground-Air Radar | | | | | |
| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| G/ATOR | C/CPIF | NORTHROP GRUMMAN SYSTEMS CORPORATION:LINTHICUM HEIGHTS, MD | 122.120 | 77.682 | Dec 2011 | - | | - | | - | 0.000 | 199.802 | | |
| Subtotal | | | 122.120 | 77.682 | | - | | - | | - | 0.000 | 199.802 | | |
| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| G/ATOR | MIPR | MITRE:BOSTON, MA | 1.322 | 1.733 | Dec 2011 | - | | - | | - | 0.000 | 3.055 | | |
| G/ATOR | WR | NSWC-DAHLGREN:DAHLGREN, VA | 13.545 | 7.774 | Dec 2011 | - | | - | | - | 0.000 | 21.319 | | |
| G/ATOR | WR | NSWC-CRANE:CRANE, IN | 1.190 | 0.284 | Dec 2011 | - | | - | | - | 0.000 | 1.474 | | |
| G/ATOR | C/FP | MCSC:QUANTICO, VA | 0.214 | 0.200 | Dec 2011 | - | | - | | - | 0.000 | 0.414 | | |
| G/ATOR | C/CPIF | MCOTEA:QUANTICO, VA | 0.662 | - | | - | | - | | - | 0.000 | 0.662 | | |
| G/ATOR | WR | NSWC-PHD:DAM NECK, VA | - | 0.569 | Dec 2011 | - | | - | | - | 0.000 | 0.569 | | |
| Subtotal | | | 16.933 | 10.560 | | - | | - | | - | 0.000 | 27.493 | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract | |
| G/ATOR | C/CPIF | MCOTEA:QUANTICO, VA | 0.672 | 0.700 | Dec 2011 | - | | - | | - | 0.000 | 1.372 | | |
| G/ATOR | C/FP | GENERAL DYNAMICS:STAFFORD, VA | 0.950 | 0.600 | Dec 2011 | - | | - | | - | 0.000 | 1.550 | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development | | | | R-1 ITEM NOMENCLATURE PE 0206313M: Marine Corps Comms Systems | | | | PROJECT 9C89: Marine Ground-Air Radar | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| G/ATOR | WR | NSWC-CORONA:CORONA, CA | 0.418 | 0.300 | Dec 2011 | - | | - | | - | 0.000 | 0.718 | |
| G/ATOR | MIPR | US ARMY ABERDEEN:PROVING GROUND, MD | 0.450 | 1.600 | Dec 2011 | - | | - | | - | 0.000 | 2.050 | |
| G/ATOR | MIPR | MARINE CORP AIR STATION:YUMA, AZ | 0.350 | 2.200 | Feb 2012 | - | | - | | - | 0.000 | 2.550 | |
| G/ATOR | MIPR | MCTSSA:CAMP PENDLETON, CA | - | 2.200 | Dec 2011 | - | | - | | - | 0.000 | 2.200 | |
| G/ATOR | MIPR | NAVAL SURFACE WEAPONS COMBAT CNTR:WALLOPS ISLAND, VA | - | 1.600 | Dec 2011 | - | | - | | - | 0.000 | 1.600 | |
| Subtotal | | | 2.840 | 9.200 | | - | | - | | - | 0.000 | 12.040 | |
| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| G/ATOR | C/FP | MCSC:MCSC-QUANTICO, VA | - | 8.350 | Dec 2011 | - | | - | | - | 0.000 | 8.350 | |
| G/ATOR | Various | MCSC:QUANTICO, VA | 0.300 | 0.424 | Sep 2012 | - | | - | | - | 0.000 | 0.724 | |
| G/ATOR | C/FP | GENERAL DYNAMICS:STAFFORD, VA | 12.587 | - | | - | | - | | - | 0.000 | 12.587 | |
| GATOR | C/FP | MCSC:QUANTICO, VA | 0.411 | 0.438 | Dec 2011 | - | | - | | - | 0.000 | 0.849 | |
| Subtotal | | | 13.298 | 9.212 | | - | | - | | - | 0.000 | 22.510 | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy | | | | | | | | DATE: February 2012 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | | | | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | | | | PROJECT 9C89: <i>Marine Ground-Air Radar</i> | | | |
| | Total Prior Years Cost | FY 2012 | | FY 2013 Base | | FY 2013 OCO | | FY 2013 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | 155.191 | 106.654 | | - | | - | | - | 0.000 | 261.845 | |
| Remarks | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 9C89: <i>Marine Ground-Air Radar</i> |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy | | | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i> | R-1 ITEM NOMENCLATURE PE 0206313M: <i>Marine Corps Comms Systems</i> | PROJECT 9C89: <i>Marine Ground-Air Radar</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 9C89 | | | | |
| Defense/Air Surveillance AS/AD Capability System Demonstration (DT)(1B) | 2 | 2012 | 4 | 2012 |
| Defense/Air Surveillance AS/AD Capability System Demonstration (DT/OT)(1C) | 3 | 2015 | 1 | 2016 |
| Defense/Air Surveillance AS/AD Capability Operational Assessment (OA) | 4 | 2012 | 1 | 2013 |
| Defense/Air Surveillance AS/AD Capability Low Rate Initial Production (LRIP) | 3 | 2013 | 3 | 2017 |
| Defense/Air Surveillance AS/AD Capability Milestone C | 3 | 2013 | 3 | 2013 |
| Defense/Air Surveillance AS/AD Capability (IOT&E) | 2 | 2016 | 2 | 2016 |
| Defense/Air Surveillance AS/AD Capability (IOC) | 4 | 2016 | 4 | 2016 |
| Defense/Air Surveillance AS/AD Capability Full Rate Production Decision | 4 | 2016 | 4 | 2016 |