

1.0 INTRODUCTION

Code 41200, the RF Systems Fleet Engineering Division of Space and Naval Warfare Systems Center Pacific (SSC Pac) is being tasked by the Program Executive Office for Space Systems (PEO Space Systems) to acquire engineering support services for PEO Space Systems Communications Satellite Program Office PMW 146.

2.0 BACKGROUND

2.1 Missions

PEO Space Systems PMW 146 mission is to develop, acquire, integrate, produce, launch, test, and provide operational support to space systems for Department of Defense (DoD) and U.S. Agencies to enable joint, coalition, combined, and Naval operations. In addition, the PEO Space Systems is also responsible for coordinating all Department of the Navy (DoN) Space Research, Development and Acquisition activities and Narrowband Ultra High Frequency (UHF) SATCOM satellite systems (FLTSAT, UHF Follow-On, LEASAT and Skynet). SSC Pac Code 41200 will support PMW 146 in this mission.

2.2 Functions

The PEO Space Systems serves as the DoN space program executive officer as called for in the National Security Space Acquisition Policy (NSSAP 03-0 1). The PEO Space Systems is also responsible for influencing the design, acquisition, and operation of national security space programs in order to provide a full spectrum of on-orbit capabilities in support of open-ocean, littoral, and naval land operations. The Communications Satellite Program Office mission is to develop, acquire, integrate, produce, launch, test and provide operational support for narrowband satellite communication systems supporting Department of Defense (DoD) and the U.S. agencies to enable joint, coalition, combined, and naval operations. PMW 146 manages the acquisition and support of narrowband satellite communication systems for the Department of the Navy and coordinating the acquisitions with the Under Secretary of the Air Force in accordance with the National Security Space Acquisition Policy (NSSAP) 03-01.

2.3 SSC San Diego Functions

SSC Pac (Code 41200) is being tasked to assist PMW 146 with acquisition and production support of the military FLTSAT and Ultra-High Frequency Follow-On (UFO) programs, as well as the commercial leased satellites, LEASAT and Skynet.

3.0 SCOPE

The purpose of this Task Order is to provide SSC Pac Code 41200 and PEO Space Systems PMW 146 with the capacity and capability to provide system engineering and support services that includes logistics, training development and system testing and evaluation of Navy, Joint Military, Foreign Military and Commercial communications systems, encrypted secure networks, and communication links that support and fall under the responsibility of PMW 146. Task Order services are for subject matter expertise (technical), with skill sets and experience that match SSC Pac's need to comply with and respond to DoD, SPAWAR, PEO requirements.

This Performance Work Statement (PWS) reflects current SSC Pac and PMW 146 policies and practices, allowing offerors to propose and price a solution to known requirements. It is

anticipated that program requirements and resulting objectives will change over the life of this task order. As necessary, SPAWAR will modify this order to incorporate any necessary in-scope changes.

4.0 APPLICABLE DIRECTIVES/DOCUMENTS

The Contractor shall adhere to the following documents in accordance with paragraph 5.0, Performance Requirements:

Document Type	No./Version	Title	Date
DOD Directive	NSSAP 03-0	National Security Space Acquisition Policy	6-Oct-03
DOD Instruction	5200.4	DoD Information Technology Security Certification and Accreditation Process (DITSCAP)	30-Dec-97
DOD Instruction	8510.01	DoD Information Assurance and Accreditation Process (DIACAP)	28-Nov-07
DOD Directive	5000.1	The Defense Acquisition System	12-May-03
DOD Instruction	5000.	Operation of the Defense Acquisition System	12 May 03
DOD Regulation	5000.2-R	Mandatory Procedures for Major Defense Acquisition Programs	5-Apr-02
SECNAVINST	5000.2	Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System	19-Nov-04

5.0 PERFORMANCE REQUIREMENTS

The Contractor shall provide support, detailed below, for SSC Pac and PMW 146. The Contractor shall provide timely assistance to meet program emergent requirements.

5.1 UHF/Narrowband Satellite Communications Support

5.1.1 The Contractor shall use the test plan prepared in Contract 08-R-301 9 Task 5.2.1 which includes FLTSAT, UFO, LEASAT and Skynet program testing. Using this test plan evaluate the suitability of continuous increased frequency channel usage for the satellite footprint, the frequency characteristics, Uplink and Downlink interference, Propagation effects, RF Intermodulation Distortion and channel power and additional specifications determined to be critical to maintaining continuous UHF channels. The test shall identify all EMI issues with UHF frequencies being used, to determine if any outages on channels occur during the satellite eclipse and/or solstice periods. Contractor shall provide analysis of tested frequency characteristics, to determine the maximum number of UHF SATCOM channels, and document the additional frequencies added to the UFO Constellation to determine any EMI issues with the current UHF frequencies. The Contractor shall prepare and submit a draft engineering report with the test results of Task 5.1.3.1 for approval of the test results. (DI-MISC-80508B —TECH REPORT STUDY)

5.1.2 The Contractor shall revise the draft engineering report with any corrections noted and

provide for the distribution of the test results to all test sites and to PEO Space Systems and PMW 146. (DI-NDT1-80809B —TEST/INSPECTION REPORT)

5.2. Site Engineering

5.2.1 The Contractor shall provide engineering management support for the Site Engineering Integrated Product Team (IPT). Contractor support shall include providing an operational perspective during site visits and review of vendor documentation. The Contractor shall develop all necessary documentation, and provide requested input in writing in support of SSC pac and the PMW 146 Program Manager and staff. The Contractor shall compile and analyze vendor documentation as assigned, recommending possible solutions to identified problems. Contractor prepared analyses shall be submitted to the requesting authority as required to ensure proper engineering management. All work performed shall be completed by the prescribed deadline.. (DI-NDT1 -80809B —TEST/INSPECTION REPORT)

5.3. Production Engineering and Integration

5.3.1 The Contractor shall provide support for satellite bus and payload engineering development, test and mission ops support. The contractor shall attend design reviews, TIMs, RMBs and other meetings to assess progress and shall review CDRLs and other material in execution of this task. A report will be generated with comments, inputs, recommendations and presentations shall be provided to the Government POC. (DI-MISC-80508B —TECH REPORT STUDY)

5.3.2 The Contractor shall provide technical support and recommendations to SSC Pac and the PMW 146 program manager in the acquisition of system hardware and software, integration planning and tracking, as well as production support and updates to engineering documentation of the production phase. The Contractor shall provide inputs to production engineering documentation, production configuration baselines, and schedule changes in support of on-going acquisition, production and integration efforts. The Contractor shall provide technical representation in support of on-going acquisition, production and integration efforts at working group meetings, IPT sessions, in-process reviews, and other meetings. The Contractor shall provide production engineering support and integration efforts to support upgrades based on technical analysis, security assessment, and the degree of nonrecurring engineering required for full integration.

5.3.3 The Contractor shall provide analysis of production quality assurance data to make recommendations relating to production of any Narrowband Satellite Communications System. Information will include data received from the contractor in the form of quality control program plans, procedures and reports. Analysis of production operations, processes and systems to include reviewing and assisting in the reduction of program risk per applicable risk management plans, reviewing production during periods of start-up through shutdown, and reviewing and analyzing contractor status reports. All work performed shall be completed by the prescribed deadline

5.3.4 The Contractor shall provide production acceptance test and analysis, which includes the evaluation of production design data, CDRLs, system drawings, requirement traceability matrixes and production documentation, to ensure production deliveries meet production contract specifications data associated with the delivery of production hardware. This also includes reviewing and documenting requests for deviations and waivers, and technical reports as required in order to facilitate the government acceptance of contractor delivered hardware via DD250. Production scheduling/planning services to include tracking of GFE/GFI government commitments, evaluating production requirements (including the procurement of long-lead material and review of production material receipt), recommending the allocation of production assets from the prime contractor to meet scheduled need dates. This includes assisting the prime contractor and government team in resolving production/delivery conflicts and updating acquisition documentation when required by an Engineering Change Proposal (ECP). All work performed shall be completed by the prescribed deadline. (DI-ADMN-80925 —REVISION TO EXISTING GOVERNMENT DOCUMENT)

5.4 Production

5.4.1 The Contractor shall provide Production Engineering for production related Integrated Product Teams (IPTs) to include: ATLAS Systems Engineering IPT, Delta Systems Engineering IPT, Lockheed Martin Launch System IPT, and Lockheed Martin Production Ground Systems IPT. The Contractor shall provide engineering analyses, trade studies and producibility assessments of proposed Mobile User Objective System (MUOS) and Evolved Expendable Launch Vehicle (EELV) concepts and systems designs. The Contractor shall submit the required analyses and report in accordance with the MUOS and EELV program schedule (DI-MISC-80508B —TECH REPORT STUDY)

5.4.2 The Contractor shall provide engineering analyses and technical reviews of Spacecraft and Ground system vendor's material management and parts qualification processes, including system engineering analyses and technical reviews of Legacy UHF Payload Designs earmarked for integration within the MUOS payload.. The Contractor shall develop the analysis and technical reviews through documentation review and site visits as necessary. The Contractor shall submit a detailed report to SSC Pac and the PMW 146 Program Manager within the prescribed deadline. (DI-MISC-80508B —TECH REPORT STUDY)

5.4.3 The Contractor shall provide quality assurance support through participation in Lockheed Martin's, Defense Contracting Management Agency (DCMA) and related vendor's implementation of their material and manufacturing program. That support will include supporting material and process quality spot checks, failure reviews and failure analysis boards. The Contractor shall develop and submit a Quality Assurance Plan detailing methods, type and frequency of checks. In accordance with the approved Quality Assurance Plan, the Contractor shall notify the Program Manager immediately when serious quality problems are detected, and summarize other actions and meetings in the monthly report. (DI-MISC-8071 1A —SCIENTIFIC AND TECHNICAL REPORT)

5.4.4 The Contractor shall support the MUOS program's advance planning and program execution by developing the government's master production schedule and providing comparative analysis to the prime contractor's master production schedule. The Contractor shall develop the master production schedule in accordance with guidance contained in the Acquisition Support Office's Acquisition Program Structure Guide, The Program Manager's Handbook and the SPAWAR Scheduling Guide. (DI-MGMT-8 1650 —INTEGRATED MASTER SCHEDULE)

5.5 Telemetry, Tracking and Command (TT&C) for UFO /LEASAT /Skynet

5.5.1 The Contractor shall provide procurement and installation services for the TT&C prototype terminals. This includes system design/development analysis, technical specification development, hardware design and integration analysis, system design reviews, design development engineering, data reviews, prototype development, testing, and engineering drawings, installation/integration technical support and updates to the ground UFO TT&C terminals that support UFO on-orbit operations. All work performed under each identified subtask shall be completed by the prescribed deadline

5.5.2 System Engineering

The Contractor shall provide system engineering support for the Ultra High Frequency / Follow On (UFO) Telemetry, Tracking and Command (TT&C) Terminal upgrades. The Contractor shall provide system engineering support necessary to perform efforts associated with the procurement and installation of the TT&C prototype terminals. This effort includes updates to the ground UFO TT&C terminals that support UFO on-orbit operations. All work performed under each identified subtask shall be completed by the prescribed deadline.

5.5.3 The Contractor shall provide production engineering support for the UFO TT&C Terminal upgrades. This production support will include the: technical representation in producibility reviews and production operations; technical evaluation of Acceptance Test Plans and Procedures; and conduct Acceptance testing and Provide a report stating the evaluation of the results. All work performed under each identified subtask shall be completed by the prescribed deadline (DI-MISC-8071 1A —SCIENTIFIC AND TECHNICAL REPORT)

5.5.4 The Contractor shall provide quality assurance services during production and fielding events. These quality assurance activities shall include: the review of prime contractor quality assurance audit data; the execution on customer directed spot inspections of manufacturing processes and installation events; and technical participation in anomaly review meeting when manufacturing failures or installation failures occur.

5.5.5 The Contractor shall provide development of Plans of Actions and Milestones (POA&M), development of briefings for Program Reviews, Technical Interchange Meetings (TIM), Test Integration Working Group, Test Readiness Review (TRR), etc., consolidate and develop responses to technical, logistic or other questions from Navy, Joint Military, Foreign Military and Commercial entities as required, and coordinate testing, and installation/integration efforts as required for encrypted secure networks: (DI-SESS-8 1694 - Engineering Database and

Configuration Management)

5.5.6 The Contractor shall provide technical needs assessments, market research and evaluation, technical documentation development, requirements analysis, and metrics collection and analysis for encrypted secure networks: .

5.5.7 The Contractor shall provide curriculum development, course materials/media, conduct training, evaluation of existing training, and training needs assessments. for encrypted secure networks: (DI-ILSS-80872 - TRAINING MATERIALS)

6.0 DELIVERABLES

The Contractor shall provide monthly status reports by the 10th day of the month following the performance period. Format and other delivery requirements are provided in the Contract Data Requirements List (CDRL) in the basic contract. All remaining deliverables are cited in applicable performance requirements section 5.0.

7.0 TRAVEL

1 trip, 2 person, 4 days, to Charleston SC.
 2 trip, 2 person, 4 days, to Cape Canaveral, FL.
 2 trip, 2 person, 5 days, to Prospect Harbor ME
 1 trip, 2 person, 4 day, to Boston. MA
 1 trips, 2 person, 6 day, to Guam.
 2 trip, 2 person, 3 days, to Point Mugu CA
 2 trip, 2 person, 4 days, to Washington DC

8.0 ORGANIZATIONAL CONFLICT OF INTEREST (OCI) ACCESS TO OTHER CONTRACTOR'S PROPRIETARY DATA

To perform the tasks specified in this PWS, the Prime Contractor (or Subcontractor) will require access to other companies' proprietary data. The Contractor agrees that it will not accept nor allow its subcontractor(s) to accept proprietary data until it or its applicable subcontractor(s) (i) execute the agreement and (ii) furnishes a copy of such agreement to the Contracting Officer. H-9 "Organizational Conflict of Interest" incorporated in Section H of the contract

9.0 SECURITY REQUIREMENTS

The nature of this task requires access to SECRET information. The work performed by the Contractor will include access to SECRET data, information, and spaces. The Contractor will be required to attend meetings classified at SECRET levels.

Note: If foreign travel is required, all outgoing Country/Theater clearance message requests shall be submitted to the SSC SD foreign travel team, OTC2, Room 1656 for action. A Request for Foreign Travel form shall be submitted for each traveler, in advance of the travel to initiate the release of a clearance message at least 35 days in advance of departure. Each Traveler must also submit a Personal Protection Plan and have a Level 1 Antiterrorism/Force Protection briefing

within one year of departure and a country specific briefing within 90 days of departure.

9.1 OPERATIONS SECURITY

All work is to be performed in accordance with DOD and Navy Operations Security (OPSEC) requirements and in accordance with the OP SEC attachment to the DD 254.

10.0 BEST PRACTICES

Work performed by the Contractor shall provide support to SSC SD, PMW and SPAWAR command-level "Best Practices" principles incorporated in the SPAWAR Program Manager's Toolkit Acquisition Support Office Guides (1) Acquisition Program Structure Guide; (2) Contract Management Process Guide; (3) Program Manager's Handbook; (4) Scheduling Guide; (5) Systems Engineering Guide; (6) Technology Alignment Guide and support the command wide implementation process.

11.0 TECHNICAL POINT OF CONTACT

Technical Point of Contact/Task Manager:

Primary: [REDACTED] (619) 524-3696

Alternate: [REDACTED] (619) 524-3425