DRAFT STATEMENT OF WORK

1.0 INTRODUCTION AND BACKGROUND

The Naval Surface Warfare Center Port Hueneme (NSWC PHD) has been tasked to provide In-Service Engineering and Life Cycle sustainment of fielded systems in support of AN/SPS-77 and AN/TPS-80 radar systems, ensuring these deployed systems perform their intended functions during their lifecycle. Identification and assessment of engineering, technical, logistical, and material solutions enable NSWC PHD to support operational readiness of the aforementioned surveillance radar systems under its cognizance.

2.0 SCOPE

The Statement of Work (SOW) defines efforts required for Engineering, Technical, Logistical, and Material support services for United States Navy Littoral Combat Ship (LCS) AN/SPS-77 radar systems and United States Marine Corps AN/TPS-80 Ground/Air Task Oriented Radar (G/ATOR) systems. The project is managed by the Ship Defense and Expeditionary Warfare Department of the Naval Surface Warfare Center, Port Hueneme, California. NSWC PHD is a field activity of the Naval Sea Systems Command (NAVSEA) and is the In-Service Engineering Agent (ISEA) for the Program Executive Office Unmanned and Small Surface Combatants (PEO USC) and Program Executive Office Land Systems (PEO LS).

2.1 The SOW objectives include:

2.1.1 Support the AN/SPS-77 and AN/TPS-80 Radar Systems to ensure that all hardware and software products are fully supported throughout their life cycles to achieve the required AN/SPS-77 and AN/TPS-80 operational availability measures.

2.1.2 Provide Fleet Support, to include in-factory engineering support, hardware and software maintenance, spares procurement, to support and maintain all deployed AN/SPS-77 and AN/TPS-80 Radar units.

3.0 APPLICABLE DOCUMENTS

The following documents are applicable to the tasks described herein and are for use by the Contractor in the fulfillment of those tasks. The exact revisions of the documents are not cited in the text of this SOW for the convenience of reference. All of the documents listed herein are assumed to be the latest revision as of the date of award.

3.1 GOVERNMENT DOCUMENTS

Document #	Title

DOD 8500.1	Information Assurance
DOD 8510.01	Risk Management Framework (RMF) for DoD Information Technology (IT)
SP 800-37 Rev 1	National Institute of Standards and Technology (NIST) Guide for Applying the Risk Management Framework to Federal Information Systems
SECNAVINST 5239.3	Department of the Navy Information Systems Security (INFOSEC) Program
OPNAVINST 5239.1B	Department of the Navy Information Assurance (IA) Program
NAVSEAINST 5239.2	Information Systems Security Program
DOD 5200.40	Department of Defense Information Technology Security Certification and Accreditation Process (DITSCAP)
ANSI/NCSCL Z540-1-1994	Calibration Laboratories and Measuring and Test Equipment-General Requirements
NAVSEA Technical Specification 9090-700D part B (DRAFT)	Ship Configuration and Logistics Support Information System, Data Element Dictionary and Data Specification
NAVSEA Technical Specification TS9090-310G	Alterations to Ships Accomplished by Alteration Installation Teams
S9095-AD-TRQ-010/TSTP	NAVSEA Total Ship Test Program Manual
NAVSEAINST 8020.6E	Department of the Navy Weapon Systems Explosive Safety Review Board
SW020-AH-SAF-010	NAVSEA Weapons System Safety Guidelines Handbook
NAVSEAINST 5100.12B	Requirements for Naval Sea Systems Command System Safety Program for Ships, Shipborne Systems and Equipment
MIL-STD-2106A	Development of Shipboard Industrial Test Procedures
MIL-STD-2073-1E(1)	DOD Standard Practice for Military Packaging
MIL-PRF-32216A	Evaluation of Commercial Off-the-Shelf (COTS) Manuals and Preparation of Supplemental Data
MIL-HDBK-61A(SE)	Configuration Management Guidance

MIL-HDBK-502A	Product Support Analysis
MIL-HDBK-470A	Designing and Developing Maintainable Products and Systems
MIL-HDBK-344A	Environmental Stress Screening of Electronic Equipment
MIL-HDBK-3018(1)	Parts Management
SD-22	Diminishing Manufacturing Sources and Material Shortages
DD Form 1949-1	Logistics Support Analysis Report (LSAR) Data Requirements Form, Part I
DD Form 1949-2	Logistics Support Analysis Report (LSAR) Data Requirements Form, Part II
DD Form 1949-3	Logistics Support Analysis Report (LSAR) Data Requirements Form, Part III
2.0 CMP 002A	PEO IWS 2.0 Above Water Sensors Configuration Management Plan/Procedures
2.0 CMP 002B	PEO IWS 2.0 Above Water Sensors Configuration Management Plan/Procedures
MIL-STD-130L	Identification Marking for US Military Property
DOD 5220.22-M	National Industrial Security Program Operating Manual (NISPOM) for connections between DoD and contractor information systems dated 28 March 2013
DODI 8551.1	Ports, Protocols, and Services Management (PPSM) dated 28 March 2013
CJCSI 6211.02D	DISN: Policy and Responsibilities dated 24 January 2012
DODI 3741.01	National Leadership Command Capabilities (NLCC) Configuration Management (CM)
MIL-STD-38784A	Department of Defense Standard Practice for Manuals, Technical: General Style and Format Requirements
MIL-DTL-87268D	Detail Specification Interactive Electronic Technical Manuals General Content, Style, Format, and User-Interaction Requirements
MCO P5215.17	Marine Corps Technical Publication System

3.2 OTHER MILITARY DOCUMENTS

Document #	Title
SAE EIA-649-1	Configuration Management Requirements for Defense Contracts

4.0 GENERAL REQUIREMENTS

4.1 SECURITY CLEARANCES AND PROCEDURES

4.1.1 The SOW is Unclassified; however, the classification of the work to be performed may require access to secure areas and classified information up to and including Secret per the attached Contract Security Classification Specification, DD254. Security requirements will be identified by order and/or Technical Instruction (TI). In the event a particular order requires revision, updates or additional security classification guidance, the DD Form 254 will either be revised.

4.1.1.1 The Contractor may have access to classified SIPRNET Network to perform review and feedback requirements to Capabilities and Limitations documentation as outlined in paragraph 5.1.11.

4.1.2 In accordance with SECNAV M5510.30, the Navy Personnel Security Program Manual (Chapter 6, Section 6-6, Paragraphs 2b and 2c), Executive Order 13467 of 30 June 2008, as well as HSPD-12 and United States Office of Personnel Management Memorandum, Final Credentialing Standards for Issuing Personal Identity Verification Cards under Homeland Security Presidential Directive 12 (HSPD-12) dated 31 July 2008, the Contractor shall ensure that all individuals performing work on behalf of the Government have a current, favorable adjudicated background investigation of the appropriate type to determine fitness to perform work on behalf of the Government as a Contractor employee, perform sensitive national security duties, or have access to classified information. A background investigation equivalent to the current Tier requirement and which is still in scope is acceptable.

4.1.3 In accordance with the guidance put forth in DOD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM), Contractor Employees who require access to Classified Information will be processed under the terms of the National Industrial Security Program (NISP) in alignment with the work requirements of the contract and Security Requirements on the applicable DD Form 254. Those Contractor employees who do not require access to classified information in performance of this contract, but are assigned to sensitive national security duties, require access to sensitive information, or for other reasons require a fitness or trustworthiness determination, shall be processed for the

appropriate background investigation through the NSWC PHD Personnel Security Office for a Non-NISP investigation. Point of contact is the Personnel Security Specialist, (805) 228-7196.

4.1.4 The Contractor shall notify NSWC PHD Command Security Manager of any Contractor personnel who have an investigation with an action pending, whose eligibility has been administratively withdrawn or is pending withdrawal, whose interim clearance eligibility has been withdrawn, who has an eligibility of no determination made, or whose Security Clearance Eligibility has been denied or revoked.

4.1.5 The Contractor shall provide a list of personnel and their security clearance levels for all personnel working on this contract. Contractor shall submit Contractor Personnel Roster in accordance with Contract Data Requirements List (CDRL A001).

4.1.6 Operations Security (OPSEC)

4.1.6.1 Contractor will be developing, producing, analyzing, maintaining, transporting, storing, testing, or using critical information or indicators for this contract at NSWC PHD locations only.

4.1.6.2 The Contractor shall comply with the Government Contracting Activity (GCA) OPSEC program instructions, guidance and contribute to organization-level OPSEC efforts. While performing aboard designated government sites and facilities, the Contractor shall comply with facility OPSEC program instructions and contribute to organization-level OPSEC efforts and OPSEC training and awareness program. Ensure you read NSWCPHDINST 3432.1C, updating to NSWCPHDINST 3070.2 series for OPSEC requirements.

4.1.6.3 Performance under this contract requires the Contractor to adhere to OPSEC requirements. OPSEC requirements are additional to the requirements of DOD 5220.22-M, National Industrial Security Program Operating Manual, therefore, the Contractor may not impose OPSEC requirements on its subcontractors unless NSWC PHD approves the OPSEC requirements.

4.1.6.4 The Contractor shall prepare an Operations Security (OPSEC) Plan in accordance with (CDRL A030).

4.2 **Cybersecurity and IT Requirements**: Not Applicable

4.3 Safety

4.3.1 The Contractor shall prepare an Emergency Action Plan (EAP) associated to the services performed in this SOW. Contractors storing classified documentation and classified equipment at their facilities in accordance with tasking in this requirement shall develop and maintain an EAP and provide a report in accordance with (CDRL A002).

4.4 Environmental Protection and Compliance

4.4.1 The Contractor shall prepare a Hazardous Materials Management Program (HMMP) Plan using National Aerospace Standard (NAS) 411 as the guide in accordance with (CDRL A004). The Contractor shall avoid the use of toxic chemicals, hazardous materials and ozone depleting substances in the design, manufacturing, operational support, and disposal of AN/SPS-77 and AN/TPS-80 efforts.

4.4.2 The Contractor shall prepare a Hazardous Material Management Program Report associated to the services performed in this SOW in accordance with (CDRL A005).

4.5 Travel

4.5.1 The Contractor shall travel in providing engineering, technical, logistical, and material services to support the scope of work both in the Continental United States (CONUS) and Outside Continental United States (OCONUS). These may include, but are not limited to, Contractor's facilities, U.S. Marine Corps facilities and sites, U.S. Navy ports and shipyards, Contractor/Subcontractor shipyards, the Customer Identified Maintenance Centers, overseas ports and shipyards when the U.S. Navy ships are deployed as well as aboard U.S. Navy ships when underway. For planning purposes, the following probable locations are provided:

- Virginia Beach, VA
- San Diego, CA
- Norfolk, VA
- Mayport, FL
- Mobile, AL
- Bremerton, WA
- Pearl Harbor, HI
- Yokosuka, JPN
- Sasebo, JPN
- Camp Pendleton, CA
- Camp Lejeune, NC
- 29 Palms, CA
- Okinawa, JPN

This list is not all-inclusive. Contractor may be required to travel to other CONUS and OCONUS locations during contract performance.

4.5.2 The Contractor shall provide trip reports in support of the services performed in the SOW in accordance with (CDRL A006)

4.6 RESERVED

4.7 RESERVED

4.8 PERIOD OF PERFORMANCE

The period of performance of this SOW is defined as Base Year plus four (4) Option Years (5 Years Total).

4.9 PERSONNEL

The Contractor shall identify the organizational elements responsible for the conduct of the activities outlined in this SOW. Responsibilities shall be assigned and clear lines of authority defined for determining and controlling the resources necessary to satisfy each element of this SOW. The Contractor shall appoint in writing all persons filling key personnel positions, and as part of their proposal, identify the qualifications of the personnel filling these positions: Program Director, Program Manager, Lead Principal Systems Engineer, and Logistics Manager. The Contractor shall notify the Government of personnel changes in accordance with C-237-H002 SUBSTITUTION OF KEY PERSONNEL (NAVSEA) (OCT 2018) and via monthly Contracting Officer's Management Report (CDRL A007).

4.10 PROGRAM MANAGEMENT AND ADMINISTRATION

The Contractor shall manage the program and provide the Government with insight into the program schedule, performance, cost, risks, subcontracts, and data in accordance with the tasks specified below to ensure the correct and timely delivery of all supplies and services specified in the contract. The Contractor shall provide all the necessary Program Management and Administrative Services including:

- Program Planning, Control and Monitoring
- Supply Chain Management
- Configuration Management
- Quality Assurance
- Financial Analysis
- Contract Administration
- Subcontract Administration

4.10.1 The Contractor shall provide management and administration to manage the work defined within the SOW.

4.10.2 The Contractor shall provide support for program planning, monitoring and control functions for the work defined within the SOW.

4.10.3 The Contractor shall develop and/or maintain current and future technical and programmatic documentation to include all types of documentation cited in this SOW.

4.10.4 Documentation prepared and edited by the Contractor shall be submitted to the Government as preliminary or draft for Government review for comments, changes, and/or corrections, prior to formalizing into final submissions.

4.10.5 The Contractor shall utilize the required Government formats which will be provided at the individual POA&M.

4.10.6 The Contractor shall maintain configuration control at all stages of document generation and maintenance.

4.10.7 The Contractor shall provide project Earned Value Management (EVM) support including, coordinating, participating, and assisting in Integrated Baseline Reviews (IBRs); calculating and tracking of earned value metrics; tracking EVM execution, working with the Cost Account Managers (CAMS) to define and enter tasking into Performance Based Management System (PBMS). (CDRL A008)

4.10.8 The Contractor shall participate in a weekly teleconference between the Government and Contractor personnel to review the status of active work being performed and any outstanding issues or actions.

4.10.9 The Contractor shall submit monthly Program Status Reports (CDRL A009)

4.11 DATA DELIVERABLES CDRL

The Contractor shall provide deliverables as described in SOW and CDRLs Format, delivery schedule, and detailed reporting requirements for deliverables are outlined in the CDRLs and associated Data Item Descriptions (DIDs).

CDRL	Title of Data Item	DID Number / CFR / TMCR Number
A001	Contractor's Personnel Roster	DI-MGMT-81834A
A002	Emergency Action Plan	29 CFR 1910.38
A003	Reserved	
A004	Hazardous Materials Management Program (HMMP) Plan	DI-MGMT-81398C
A005	Hazardous Materials Management Program (HMMP) Report	DI-MISC-81397C
A006	Travel/Trip Report	DI-MISC-81943
A007	Contracting Officer's Management Report	DI-MGMT-81864A
A008	Integrated Program Management Data & Analysis Report (IPMDAR)	DI-MGMT-81861B
A009	Status Report	DI-MGMT-80368A
A010	Technical Reports– Study/Services	DI-MISC-80508B
A011	Presentation Material	DI-ADMN-81373
A012	Conference Minutes	DI-ADMIN-81250B
A013	Technical Report-Study/Services	DI-MISC-80508B
A014	Test Plans/Test Procedures	DI-SESS-81704
A015	Test Plans/Test Procedures	DI-SESS-81704
A016	Reserved	
A017	Supplier's Configuration Management Plan	DI-SESS-80858D
A018	Technical Report-Study/Services	DI-MISC-80508B
A019	Technical Report-Study/Services	DI-MISC-80508B
A020	Technical Report-Study/Services	DI-MISC-80508B
A021	Technical Report-Study/Services	DI-MISC-80508B
A022	Engineering Change Proposal (ECP)	DI-SESS-80639E
A023	Technical Report-Study/Services	DI-MISC-80508B
A024	Failure Summary and Analysis Report	DI-SESS-80255B
A025	Technical Manuals	TMCR NO. SNIPP 200197-000
A026	Technical Manuals Schedule and Status Report	DI-TMSS-81812
A027	S1000D Data Module Requirements List	DI-TMSS-81805
A028	Technical Manual Validation Plan	DI-TMSS-81818
A029	Technical Manual Validation Certificate	DI-TMSS-81819A

A030	Operations Security (OPSEC) Plan	DI-MGMT-80934C

5.0 ENGINEERING SERVICES

The scope of Engineering Services is for the Contractor to provide the necessary engineering services to ensure the AN/SPS-77 and AN/TPS-80 Radar systems maintain operational readiness. Engineering support includes Technical Engineering Services, Software Engineering Services, Logistics Support Services, Integration and Test Engineering Services, and System Modifications. Specific tasking is described in the following paragraphs:

5.1 TECHNICAL ENGINEERING SERVICES

5.1.1 The Contractor shall review and evaluate performance specifications and technical design documents for conformance to operational, contractual, and long term system supportability requirements.

5.1.2 The Contractor shall provide analyses and studies to include technical and scientific issues and non-recurring engineering for proposed change orders relative to the system engineering, manufacturing, test, assembly and delivery of AN/SPS-77 and AN/TPS-80 Radar systems. The Contractor shall provide Technical Reports – Studies/Services, Analysis & Studies (CDRL A010)

5.1.3 The Contractor shall recommend and review design improvements, waivers, deviations and alterations (i.e., impacts on performance, reliability, maintainability, man-power, system quality, safety, risk and life cycle cost). The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A010).

5.1.4 The Contractor shall provide Subject Matter Expert, in support of the Government, in peer reviews, design reviews, working groups, and technical meetings. Support shall include the generation and review of technical documents, as well as giving technical presentations. The Contractor shall provide technical and programmatic inputs during meetings, planning sessions, in-process reviews, and participate in design reviews to ensure system requirements are addressed throughout the system(s) life-cycle.

5.1.5 The Contractor shall support the preparation of technical presentation material and provide input to formal and informal system reviews (i.e., System reviews include Initial Baseline Reviews (IBR), Baseline Review Boards (BRB), Preliminary Design Reviews (PDR), and Critical Design Reviews (CDR)). (CDRL A011)

5.1.6 The Contractor shall support the Government in technical meetings pertaining to all engineering elements of the radar system. Support includes planning, coordination, scheduling, field modifications, and modernization planning, where maintenance, operation, integration and testing of tactical surveillance radar detection and tracking systems are reviewed and improved (CDRL A012)

5.1.7 The Contractor shall develop and maintain an Interim Support Plan (CDRL A013), Test Plans (CDRL A014), and Test Procedures (CDRL A015). The Contractor shall review and provide feedback to the Life-Cycle Support Plan (LCSP(CDRL A010)

5.1.8 In accordance with guidance put forth in DODI 3741.01, MIL-HDBK-61A(SE), 2.0 CMP 002A, and 2.0 CMP 002B, the Contractor shall provide Configuration Management (CM) support. Support includes developing and implementing a CM tracking process, establishing and maintaining current and future databases for tracking Engineering Change Proposals (ECP), generating and reviewing ECPs, Request for Deviations, Request for Waivers, and Contract Data Requirements List (CDRL A022)

5.1.9 The Contractor shall develop a Configuration Management Plan (CDRL A017)

5.1.10 The Contractor shall maintain a Configuration Control program that complies with SAE EIA-649-1. The Contractor shall manage all Configuration Items relevant to the work specified in this SOW in accordance with this configuration control program (CDRL A017)

5.1.11 The Contractor shall review and provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A010)

5.1.12 The Contractor shall draft proposed changes to documentation (i.e., system specifications, drawings, manuals) and assist with implementation of the corrections to systems components and documentation (CDRL A010)

5.1.13 The Contractor shall provide feedback on proposed changes in documentation using Technical Reports – Studies/Services, Analysis & Studies (CDRL A010). The Contractor shall maintain configuration control for all generated documents.

5.1.14 In accordance with guidance put forth in NAVSEA Technical Specification TS909-310G, the Contractor shall review and provide feedback to installation design and physical layout plans to ensure system meets operational performance requirements (i.e., reliability, ease of maintenance, suitability to perform equipment, cost considerations). The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A010)

5.1.15 The Contractor shall review and provide feedback to Ship Alteration(s) (SHIPALT(s), assist in development of installation control drawings and propose changes. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A010)

5.1.16 In accordance with guidance put forth in NAVSEAINST 5100.12B, NAVSEAINST 8020.6e, and SW020-AH-SAF-010, the Contractor shall provide radar fleet support throughout the life-cycle (e.g. engineering development, system maintenance, and introduction of a prototype models installed for evaluation).

5.1.17 The Contractor shall provide technical assistance for correction of casualties onboard U.S. Vessels, on USMC Field Sites, and in laboratory environments. The Contractor shall document and report anomalous system behaviors and implement a corrective action to return the system to an operational state. The Contractor shall provide feedback using Technical Report – Study/Services, Analysis & Studies (CDRL A010)

5.1.18 The Contractor shall plan and coordinate ship grooms, providing data collection, evaluation, training and equipment assistance.

5.1.19 The Contractor shall provide fleet and land based technical support to resolve system problems. Support includes the collection and analysis of system data, providing recommendations for system operation. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A010)

5.2 SOFTWARE ENGINEERING SERVICES

5.2.1 In accordance with the guidance put forth in DOD 8500.1, DOD 8510.01, DOD 5200.40, DODI 8551.1, CJCSI 6211.02D, SP 800-37, SECNAVINST 5239.3, OPNAVINST 5239.1B, the Contractor shall review, maintain and provide recommendations for the development and maintenance of software life-cycle management and maintenance documentation. (CDRL A018)

5.2.2 The Contractor shall analyze operational software systems under procurement and in service to ensure conformance with system requirement specifications, provide corrections and/or improvements that translate into detailed change proposals. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A018)

5.2.3 The Contractor shall participate as a member of the technical review team in preparation for design reviews during all phases of system life-cycle support.

5.2.4 The Contractor shall review system products (i.e., source code, runtime libraries, compilers, compile-time libraries, link-time libraries, support software, middleware, operating systems, interface and device drivers, data files, database software, database schema), necessary to develop, build, test and deliver the Computer Software Configuration Item(s) (CSCI(s)) as specified in the software requirements specification and interface requirements specification documents.

5.2.5 The Contractor shall generate, analyze, evaluate, and implement Software Trouble Report (STRs). The Contractor shall develop/update source code (for both software and firmware) and documentation to correct Software Trouble Reports (STRs). The Contractor shall develop Software Engineering Release Notices (SERN's) for each system/software release. The Contractor shall provide Technical Reports – Studies/Services, Analysis & Studies (CDRL A018)

5.3 LOGISTICS SUPPORT SERVICES

5.3.1 In accordance with the guidance put forth in NAVSEA Technical Specifications 9090-700D, MIL-HDBK-502A, MIL-HDBK-470A, and SD-22, the Contractor shall assist with technical data items to include new and legacy systems.

5.3.2 The Contractor shall support development of new Interactive Electronic Technical Manuals (IETMs), as well as the conversion of legacy IETMs.

5.3.3 In accordance with guidance put forth in NAVSEA INST 4160.3B, Technical Manual Management program (TMMP) and ASA/AIA S1000D issue 4 X, the Contractor shall develop and maintain, IETMs for all technical manuals related to the radar systems. The Contractor shall develop and deliver S1000D IETMs in accordance with Technical Manual Contract Requirement (TMCR) NO. SNIPP 200197-000 (CDRL A025). The Contractor shall provide a monthly Technical Manual (TM) Schedule and Status Report containing the current status of the IETM Development (CDRL A026). The Contractor shall deliver an S1000D Data Module Requirements List (DMRL) (CDRL A027), a TM Validation Plan (CDRL A028) and a TM Validation Certificated (CDRL A029) in accordance with TMCR.

5.3.4 In accordance with the guidance put forth in NAVSEAINST 4160.3B or MCO P5215.17, Technical Manual Management Program (TMMP). The Contractor shall ensure compliance with technical manual specifications and technical manual life cycle management plans. The Contractor shall respond to Technical Manual Deficiency/Evaluation Reports (TMDERs) or Recommended Changes to Technical Publications (NAVMC 10772), as applicable.

5.3.5 The Contractor shall support maintenance planning and analysis. The Contractor shall review and provide feedback to the Government providing Planned Maintenance System (PMS) Maintenance Requirement Cards (MRCs) or Preventive Maintenance Checks and Services (PMCS) to support updates. The Contractor shall document discrepancies and provide recommendations or solutions to the Government.

5.3.6 The Contractor shall review and provide feedback to support updates to system installation documentation (Installation Control Drawings (ICDs), Ship Configuration Documents (SCDs), etc.). The Contractor shall document discrepancies and provide recommendations or solutions to the Government. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A019).

5.3.7 In accordance with guidance put forth in MIL-HDBK-3018(1), the Contractor shall provide support with inventory control, interim spares management, and Allowable Parts List (APL) management. Support includes developing and maintaining maintenance plans, lead times for required parts, provisioning data, interim spares list, and Installation and Checkout (INCO) spare list.

5.3.8 The Contractor shall provide expertise in Interactive Computer Aided Provisioning System (ICAPS), Allowance Parts List/Allowance Equipage List (APL/AEL), and Coordinated Shipboard Allowance Listing (COSAL) feedbacks, Diminishing Manufacturing Sources and Material Shortages (DMSM) and Maintenance Demonstration (M-Demo) (CDRL A019).

5.3.9 The Contractor shall review and provide feedback to the Government provided Automated Coordinated Shipboard Allowance List Improvement Program (ACIP) and COSAL Feedback Report (CFBR). The Contractor shall provide feedback using Technical Report – Study/Services, Analysis & Studies (CDRL A019)

5.3.10 The Contractor shall review and provide feedback to Program Support Data (PSD) Sheets. The Contractor shall provide Technical Report – Study/Services, Analysis & Studies (CDRL A019)

5.3.11 The Contractor shall analyze manpower and personnel requirements. The Contractor shall provide recommendations to ensure system maintains optimal operating conditions. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A019)

5.3.12 The Contractor shall participate in system training and training support. Support includes the development of training curriculum(s); providing updates to the Navy Training Support Plan; coordinating and conducting training events; and developing applicable training materials. The Contractor shall review training site development documentation and provide feedback to support site readiness to conduct training. The Contractor shall provide feedback using Technical Report – Studies/Services, Analysis & Studies (CDRL A019)

5.3.13 In accordance with guidance put forth in MIL-STD-2073-1E (1), the Contractor shall provide package handling, storage and transportation of parts and system components.

5.3.14 In accordance with guidance put forth in ANSI/NCSL Z540-1-1994, the Contractor shall ensure special and general purpose test equipment(s) are accounted for and available. Develop and review Special Purpose Electronic Test Equipment (SPETE) and General Purpose Electronic Test Equipment (GPETE) Listings. Provide facility support for Planned Maintenance System (PMS) and provisioning.

5.3.15 The Contractor shall assist in the management and support of computer resources including operation of integrated data environments for product support.

5.3.16 The Contractor shall assist in resource management of special purpose software and hardware. The Contractor shall comply with DOD IA requirements in accordance with guidance set forth in DOD 8500.1.

5.3.17 In accordance with guidance put forth in MIL-HDBK-470A, the Contractor shall assist with design interface issues.

5.3.18 The Contractor shall ensure the relationship of logistics elements and the systems are designed and implemented to ensure operational readiness.

5.3.19 The Contractor shall coordinate and interface with NAVSEA PEO IWS, NSWC PHD, PEO Land Systems, PEO USC, and other Government activities, and various contractor offices for meetings, program schedules, milestones and product deliveries. The Contractor shall maintain a status of upcoming events, to include reporting and coordination of potential issues and conflicts in schedules (CDRL A009)

5.4 INTEGRATION & TEST ENGINEERING SERVICES

5.4.1 In accordance with guidance put forth in S9095-AD-TRQ-010 and MIL-STD-2106A, the Contractor shall provide operational, developmental, and life-cycle testing support onboard U.S. Vessels and in laboratory environments. Test events include Combat System Ship Qualification Trials (CSSQTs). The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A020)

5.4.2 The Contractor shall identify, record and report system issues and deficiencies experienced during test events. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A020)

5.4.3 The Contractor shall determine the root cause of issues and equipment errors and return the asset to operational condition. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A020)

5.5 SYSTEM MODIFICATIONS

5.5.1 The Contractor shall review and provide feedback to Engineering Change Proposal (ECP) Development documentation. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A021)

5.5.2 When an engineering change proposal is required, engineering change proposals (CDRL A022) shall be prepared by the contractor and submitted to the government in accordance with MIL-HDBK-61A (SE), and shall be limited to those that are necessary or offer significant benefit to the Government. The content of the ECPs shall be prepared by the contractor and/or Government. MIL-HDBK-61A (SE) table 6-2 provides guidance concerning the classification of ECPs. All ECPs shall be approved by the government. ECP form DD 1692 dated May 2015 shall be used. Other ECP formats, including the contractor's, shall not be used unless approved by the Government. The purpose of the ECPs shall be to: (a) correct deficiencies; (b) add or modify interface or interoperability requirements; (c) make a significant and measurable effectiveness change in the operational capabilities or logistics supportability of the system; and (d) effect substantial life cycle costs/savings.

6.0 PARTS & MATERIALS SUPPORT

6.1 In accordance with guidance set forth in MIL-HDBK-3018(1), MIL-HDBK344A, and MIL-PRF-32216A, the Contractor shall provide the materials and parts required in support of the scope of work defined in the Delivery Order(s). This is a significant part of this effort and typically represents approximately 40% of the effort.

6.2 In accordance with guidance put forth in MIL-STD-2073-1E(1) and MIL-STD-130L, the Contractor shall deliver spare parts/components for the AN/SPS-77 as cited in Attachment 2 (List of Procurable Items, AN/SPS-77 radar) and Attachment 3 (List of Procurable Items, AN/TPS-80 Radar) procured by the Government. Delivery shall be in accordance with Section F and/or the associated Delivery Order(s).

6.3 The Contractor shall monitor all aspects of system production (both initial and modifications). The Contractor shall analyze and recommend action on manufacturing and production problems, engineering changes, waivers and deviations on procurement. The Contractor shall monitor environmental and first article testing. The Contractor shall provide feedback using Technical Reports – Studies/Services, Analysis & Studies (CDRL A023).

6.4 In accordance with guidance put forth in MIL-STD-2073-1E (1), the Contractor shall provide package handling, storage, and transportation of parts and system components.

6.5 The Contractor shall provide repair parts and repair effort (including emergency repair) test and evaluation, fabrication of alteration, engineering changes, and field changes, overhaul, refurbishment and maintenance of the AN/SPS-77 and AN/TPS-80 Radar Systems.

6.6 The Contractor shall procure and install all materials and services incidental to repair effort (i.e., parts, components, accessories, documentation, tools, packing, packaging and marking, storage, inventory functions or shipping and handling.

6.7 The Contractor shall provide parts support by receiving, inspecting, repairing, packaging, procuring and shipping items returned to condition A (i.e., new, used, repaired or reconditioned material which is serviceable and issuable to all customers without limitations or restrictions)

6.8 The Contractor shall inspect equipment to determine the extent of repair, alteration or overhaul work required to return the system to an operational state. An item is considered Beyond Economical Repair (BER) if the cost of the repair exceeds 75% of the production quantity price to replace the item.

6.9 The Contractor shall establish a Failure Reporting, Analysis and Corrective Action System (FRACAS) process to provide a uniform method of determining and documenting failures, root cause, and corrective actions taken for all hardware failures during the course of item repairs. The Contractor shall assess the failure data for the identification of trends and identify those trends in the Failure Summary and Analysis Report (CDRL A024).

6.10 The Contractor shall install alterations, engineering changes, field changes, or other modifications as directed by a Technical Instruction and/or modification signed by the Contracting Officer.

6.11 Provisioned Items Orders (PIO): PIO requirements will be executed in accordance with NAVSEA clause PROVISIONED ITEMS ORDERS (NAVSEA)(APR 2015)