

SECTION C – DESCRIPTIONS AND SPECIFICATIONS

C.1 BACKGROUND / PURPOSE / SCOPE

C.1.1 BACKGROUND: The AN/SPA-25H Indicator Group is an advanced navigation and tactical situation solid-state radar indicator designed and built to complement and support multiple shipboard missions and environments such as Navigational, Metrological, Surveillance and Command and Control. The AN/SPA-25H, designed and built to replace its predecessor the AN/SPA-25G, is a computer based radar display console that provides the watch standers with a versatile workstation capable of performing its primary navigational function plus the flexibility and system growth to perform other functions as air, surface surveillance and basic command and control functions.

C.1.2 PURPOSE: The purpose of this contract is to procure AN/SPA-25H Indicator Group radar display units and associated hardware, and provide contractor support.

C.1.3 SCOPE: This Statement of Work (SOW) defines the requirements the Contractor shall accomplish in providing production, design and development, engineering and logistical support in the manufacture, fabrication, assembly, production, and delivery of the AN/SPA-25H Indicator Group hardware and components (hereafter referred to as equipment). The Contractor shall provide the material and resources, necessary to manufacture the equipment and the associated services for engineering support, installation support, configuration management, and integrated logistics support for shipboard and shore-based systems. All documents modified and/or developed under this contract will be provided to the Government with unlimited rights.

C.2 APPLICABLE DOCUMENTS: There are specifications, standards, instructions, directives, and other publications, specific portions of which may be cited in individual task orders as guidance and clarification for the Contractor in performing the contract. These may include the following:

C.2.1 Technical Data Package for the AN/SPA-25H Revision 5

C.2.2 Factory Acceptance Test (FAT) Procedures for the AN/SPA-25G Replacement AN/UYQ-70(V) Variant

C.2.3 DoD Guidebook SD-22 on Diminishing Manufacturing Sources and Material Shortages

C.2.4 MIL-HDBK-61A – Military Handbook Configuration management Guidance

C.3 REQUIREMENTS: Work to be performed and required deliverables shall be specifically described in individual task orders or delivery orders to be placed against the contract by the Contracting Officer and shall be within the parameters of one or more of the requirements described below.

C.3.1 PRODUCTION AND DELIVERY OF AN/SPA-25H INDICATOR GROUP

EQUIPMENT: Utilizing the Government accepted and approved technical data package, the Contractor shall produce and deliver equipment, including associated engineering changes, as listed in Section B. Hardware to be furnished hereunder may consist of any individual item or group of individual items listed in Section B. Production and delivery of equipment under this contract shall be through delivery orders issued by the Contracting Officer. The Contractor shall perform and successfully complete all necessary testing including Factory Acceptance Testing (FAT) using Government approved FAT procedures prior to delivery of all equipment.

C.3.2 Equipment Warranty

All equipment and material delivered under this contract shall be warranted for 18 months with the warranty period starting from the date of Government acceptance of the equipment/material. The warranty will cover labor and replacement parts for assemblies that have experienced failures due to parts or workmanship. Repairs will be performed at the contractor's facility. Shipping charges will be covered by the contractor. Travel is not included. This warranty does not include or cover misuse or physical damages caused by third parties.

C.3.3 PRODUCTION OF ENGINEERING CHANGES: The Contractor shall produce and deliver engineering changes in accordance with government approved engineering changes. The Contractor shall perform and successfully complete all necessary testing including Factory Acceptance Testing (FAT) using Government approved FAT procedures prior to delivery of AN/SPA-25H engineering changes. (how does this section differ from C.3.1? If duplicative, suggest you remove the language on FAT from one section or the other – I checked with the Department of Redundancy Department and they said it was okay to leave this in if we are going to be developing the EC's during the POP. The newly developed EC's are not part of the approved TDP. But let's discuss it.)

C.3.4 AN/SPA-25H ENGINEERING SUPPORT SERVICES: The Contractor shall provide engineering support services, including field services support for AN/SPA-25H equipment. The Contractor may be required to provide technical support during equipment installations, and/or during system level testing. Additionally, the Contractor may be required to provide technical support on previously fielded equipment. The requirement to provide engineering support services under this contract shall be through task orders issued by the Contracting Officer or designated Ordering Officer.

C.3.5 OBSOLESCENCE MANAGEMENT: The Contractor shall manage obsolescence to ensure compliance with all performance and contract requirements. Obsolescence management includes identifying, reporting, and mitigating risks associated with Diminishing Manufacturing Sources and Material Shortages (DMSMS) for AN/SPA-25H components. DoD Guidebook SD-22 on DMSMS may be used for reference in managing obsolescence.

C.3.5.1 OBSOLESCENCE IDENTIFICATION AND REPORTING: The Contractor shall establish and implement a process to identify and immediately notify the Government of pending and emergent obsolescence issues and emergent vendor implemented changes affecting

AN/SPA-25H equipment associated with approved AN/SPA-25H baselines. The Contractor shall report instances of DMSMS using CDRL Item No. A001.

C.3.6 CONFIGURATION MANAGEMENT: The Contractor shall maintain a Configuration Management Program for the AN/SPA-25H. MIL-HDBK-61A may be used as guidance for implementing configuration management processes.

C.3.6.1 CONFIGURATION STATUS ACCOUNTING (CSA): The Contractor shall maintain the CSA database to record and track status of equipment hardware and software. The Contractor shall provide the Government electronic access to the database throughout the term of the contract. The Contractor shall record CSA data for each equipment delivered. The Contractor shall include a report of CSA database activities in the monthly Contractor's Progress, Status and Management Report CDRL Item No. A002.

C.3.6.2 CRITICAL PROGRAM INFORMATION (CPI) PROTECTION: The Contractor shall establish a policy for the protection of; and identify Anti-Tamper measures for the CPI.

C.3.6.3 PRODUCT BASELINE: All Government approved documentation provided in this contract at award shall constitute product baseline. The Contractor shall maintain current, update as necessary, and obtain government approval for updates to the product baseline prior to incorporation into production.

C.3.6.4 BASELINE DESIGN CHANGES

C.3.6.4.1 ENGINEERING CHANGES TO PRODUCT BASELINE: The Contractor shall prepare Engineering Change Proposals (ECPs), Notice of Revision (NOR), Requests for Deviations (RFD), and/or Requests for Waivers (RFW) shall be delivered in accordance with CDRL Item No. A003 – A006. The documentation and information provided within the proposed and submitted ECPs, NORs, RFDs, and RFWs shall be developed in sufficient detail to enable government review and evaluation of the merits of the proposed change, including cost and scheduling impact, ship class impact, and known consequences if disapproved.

C.3.6.4.1.1 The Contractor shall provide Test Plans for engineering changes to the product baseline in accordance with CDRL Item No. A007. The Contractor shall provide revisions to Test Procedures for engineering changes to the product baseline or provide new test procedures as the engineering change warrants in accordance with CDRL Item No. A008.

C.3.6.4.2 IMPLEMENTATION OF BASELINE CONFIGURATION CHANGES: The Contractor shall not implement any changes to the equipment defined by the Baseline Configuration without prior Government approval.

C.3.7 INTEGRATED LOGISTICS SUPPORT (ILS): The Contractor shall provide ILS support for the life cycle management of the AN/SPA-25H equipment. Revised and or updated data products shall be maintained to reflect the latest government approved baseline.

C.3.8 PRODUCT RECALL AND EMERGENT CHANGES BY VENDORS: The Contractor shall have an established process to notify the Government of any recall notices from suppliers of materials, components or products in equipment. Changes implemented by vendors without prior knowledge of the Contractor shall be managed in accordance with the Contractor's approved CM Plan once they are discovered.

C.3.9 SHIPBOARD PROTOCOL: This contract may involve working onboard U.S. and foreign naval ships and vessels. As such, the Contractor is reminded of its responsibility to assure that shipboard protocol is stringently followed. Specifically, visit requests must be arranged through the Government sponsor and must be forwarded to the individual command being visited as well as to all supporting commands such as the base, squadron, tender, etc. that the visitor must pass through to get to the ship or vessel. The Contractor is responsible for obtaining and maintaining specialized training (e.g. nuclear awareness, safety, quality control) and certifications as required.

The Contractor shall ensure its personnel adhere to these requirements when providing engineering and support services. Compliance shall be reported in the trip report as defined under C.4 below.

- a. All personnel working shipboard shall possess at least a SECRET security clearance.
- b. All personnel, while shipboard, shall conform to the rules and regulations of the ship. It is the responsibility of the Contractor to understand and ensure that all employees and subcontractors follow proper rules, regulations, actions, policy, and procedures such as.
 - 1) Alarms – actual or drill
 - 2) Safety – hardhats, tag-outs, safety shoes, goggles, etc. as applicable.
 - 3) HAZMAT – bringing hazardous materials aboard, using hazardous materials, etc.
- c. The designated team lead shall, upon arrival, brief the Commanding Officer or his/her designated representative as to the purpose of the visit and expected duration.
- d. The designated team lead shall, upon final departure, debrief the Commanding Officer or his/her designated representative as to the success of the alteration and the operational condition of the affected equipment.
- e. The Contractor shall adhere to specific shipyard requirements for access, including submission of visit request information as required by the shipbuilder/shipyard and Naval Supervising Activity (NSA; typically a Supervisor of Shipbuilding activity).

C.3.10 PROGRAM REVIEWS: The Contractor shall participate in periodic program reviews. The reviews shall be supported by agendas, minutes, and presentations in accordance with CDRL Item numbers A009, A010, and A011.

C.4 REPORTS: The Contractor shall deliver reports and other data items as described in Attachment J.1. Periodic reporting will be required to include items defined under each delivery or task order.

C.4.1 Final Report: A final report shall be delivered at the completion of each task order and shall include, in addition to the information specified in the referenced Data Item Description, a compilation of all individual interim progress reports. Final reports shall be delivered in accordance with CDRL Item No. A012 Attachment J.1 to this contract.

C.4.2 Interim Progress Report (Technical): Interim technical progress reports shall be delivered periodically during the performance of each task order in accordance with CDRL Item Number A002 Attachment J.1 to this contract.

C.4.3 Interim Progress Report (Financial): Interim financial progress reports shall be delivered periodically during the performance of each task order in accordance with CDRL Item Number A013 Attachment J.1 to this contract.

C.4.4 Contract schedules as reported and the status provided under CDRL Item No. A002 (Contractor's Progress, Status and Management Report) shall contain the milestones, accomplishments, and discrete task/activities from time of delivery or task order award through completion of delivery or task order. The Contractor shall deliver an Integrated Master Schedule, CDRL Item No. A014, as required and defined under each delivery or task order.

C.4.5 GOVERNMENT-OWNED PROPERTY REPORTS: Government owned property in the custody of the Contractor shall be reported periodically. This requirement is in addition to anything required by regulation, statute, or the assigned Government Property Administrator. This includes items loaned by the Government as well as that which is Contractor-Acquired. The Contractor shall deliver this report in accordance with CDRL Item No. A015, and items (a) and (b) below.

- a. Each item of government owned property under the contract shall be allocated to only one order. Government owned property utilized by multiple orders shall be allocated to that which paid for it, provided it, or gets the most benefit (in that order of precedence).
- b. All items in the report shall be sorted by order number (if applicable), government bar code, government plant account number, and government minor property number. This report may be combined with the same report for other orders in effect under the contract with the following stipulation: Sort first by order number.

C.4.5.1 Government owned property in custody of the Contractor at the time of contract award and necessary for the successful performance of this contract shall be transferred to this contract under appropriate custody/contract transfer documentation.

C.4.6 Travel/Trip Report: Travel/Trip reports shall be delivered for every travel/trip performed during the performance of each task order in accordance with CDRL Item Number A016 Attachment J.1 to this contract.

C.5 PLAN OF ACTIONS AND MILESTONE (POA&M) REQUIREMENTS: The Contractor shall develop a POA&M for each task order. The signed POA&M shall be provided electronically to the COR and Contract Specialist within 21 calendar days after task order award, and/or modifications to the task order which affect the level of effort or contract ceilings. While contractor format is acceptable, with government's approval, the following information, as a minimum, shall appear in each POA&M.

- Date POA&M prepared (and revision number if applicable)

- Work Area (number and title)
- Contract and Task Order number
- POA&M Period of Performance
- Contractor Interfaces / Points of Contact (technical area)
 - Task Manager (name, phone number, and email)
 - Others as appropriate
- Government Interfaces / POC
 - COR (name and code)
 - TA (name and code)
- Signatures (each POA&M must be signed by a contractor representative and have the signature block for signature by the COR and TA)
- Work Summary (a brief description of work supported within this work area)
- Schedule of Events Proposed/Planned (list title of reports to be delivered and due dates for each)
- Estimated labor-hours required
- Identify subcontractor efforts
- Travel – total estimated cost; by destination, show: number of people, number of days, and number of trips
- Total estimated cost

C.6 PLACES OF PERFORMANCE: Efforts under this order shall be performed at contractor facilities and V. Occasional, short-term temporary duty may be required at other Government and Contractor field activities/commands and aboard ships.

C.7 CONTRACT SECURITY CLASSIFICATION SPECIFICATION: The Department of Defense Contract Security Classification Specification (DD Form 254), attached hereto, itemizes the security classification requirements for this contract. The work to be performed under this contract requires access to, and the handling of, classified information up to and including the SECRET security level. The Contractor shall obtain facility and personnel clearances required by the Department of Defense Industrial Security Program prior to starting work under this contract.

a. All personnel performing classified tasks under this task order shall possess, at minimum, a DoD Industrial Security Clearance of at least SECRET for all personnel assigned to perform work at NSWC DN or on board U.S. Navy ships.

b. Contractor requests for visit authorizations shall be submitted in accordance with DOD 5520.22M (Industrial Security Manual for Safeguarding Classified Information) as early as practicable and not later than three working days prior to visit (except in cases of urgency).

- (1) When a contractual relationship exists between the Contractor and the site being visited, original requests shall be delivered to the Security Officer of the activity being visited.
- (2) When a contractual relationship does not exist between the Contractor and the site being visited, original requests shall be delivered to the Security Officer of NSWC

DN via the Contracting Officer's Representative (COR), with the original copy of the request being forwarded to the activity being visited by the NSWC DN Security Officer.

- (1) Visit requests for subcontractors shall be submitted to the appropriate Facility Security Officer (FSO) for certification of need to know, when applicable.
- (2) Requirements for possession of a security clearance higher than SECRET shall be brought to the attention of the Contracting Officer for possible task order modification.

C.8 SOFTWARE DEVELOPMENT REQUIREMENTS (NAVSEA) (DEC 2006)

(a) The Contractor shall define a general Software Development Plan (SDP) appropriate for the computer software effort to be performed under this contract. The SDP shall, at a minimum:

- (1) Define the Contractor's proposed life cycle model and the processes used as a part of that model. In this context, the term "life cycle model" is as defined in IEEE/EIA Std. 12207.0;
- (2) Contain the information defined by IEEE/EIA Std. 12207.1, section 5.2.1 (generic content) and the Plans and Procedures in Table 1 of IEEE/EIA Std. 12207.1. In all cases, the level of detail shall be sufficient to define all software development processes, activities, and tasks to be conducted;
- (3) Identify the specific standards, methods, tools, actions, strategies, and responsibilities associated with development and qualification;
- (4) Document all processes applicable to the system to be acquired, including the Primary, Supporting, and Organizational life cycle processes as defined by IEEE/EIA Std. 12207, as appropriate. Such processes shall be equivalent to those articulated by CMMI[®];
- (5) Include the content defined by all information items listed in Table 1 of IEEE/EIA Std. 12207.1, as appropriate for the system and be consistent with the processes proposed by the developers;
- (6) Adhere to the characteristics defined in section 4.2.3 of IEEE/EIA Std. 12207, as appropriate;
- (7) Describe the overall life cycle and include primary, supporting, and organizational processes based on the work content of this contract;
- (8) Be in accordance with the framework defined in IEEE/EIA Std. 12207.0, including, but not limited to, defining the processes, the activities to be performed as a part of the processes, the tasks which support the activities, and the techniques and tools to be used to perform the tasks;
- (9) Contain a level of information sufficient to allow the use of the SDP as the full guidance for the developers. In accordance with section 6.5.3a of IEEE/EIA Std. 12207.1, such information shall at a minimum contain, specific standards, methods, tools, actions, reuse strategy, and responsibility associated with the development and qualification of all requirements, including safety and security.

(b) The SDP shall be delivered to the Government for concurrence as a CDRL and shall not vary significantly from that proposed to the Government for evaluation for award. The

Contractor shall follow the Government concurred with SDP for all computer software to be developed or maintained under this order. Any changes, modifications, additions, or substitutions to the SDP also require prior Government concurrence.

C.9 TERMINATION OF EMPLOYEES WITH CDSA DN BASE ACCESS: The Contractor shall ensure that all employees who have a CDSA DN badge and or vehicle sticker turn in the badge and remove the vehicle sticker immediately upon termination of their employment under this contract. The above requirement shall be made a part of the standard employee facility clearance procedures for all separated personnel. The Contractor shall advise CDSA DN Physical Security of all changes in their personnel requiring CDSA DN base access.

C.9.1 For involuntarily separated personnel and those separated under adverse circumstances, the Contractor shall notify CDSA DN Physical Security in advance of the date, time, and location where the CDSA DN representative may physically remove the employee's vehicle sticker and retrieve the CDSA DN badge prior to the employee departing the Contractor's facility. In the event the employee is separate in his or her absence, the Contractor shall immediately notify CDSA DN Physical Security of the separation and make arrangements between the former employee and CDSA DN Physical Security for the return of the badge and removal of the sticker.

C.10 INFORMATION ASSURANCE

C.10.1 Some efforts being performed under this contract/order will require the performing contractor personnel to have access to Government Information Technology (IT) Systems. In those instances, the Contractor shall ensure the performing employee is trained/certified in Information Assurance (IA) commensurate with their level/category of access, as well as the computing environment certifications (Microsoft, Unix/Linux, etc.).

C.10.2 Contractor personnel whose IT access is limited to routine usage of NMCI assets and routine access to CDSA DN business systems such as ILSMIS, SLCADA, etc. require IA training in accordance with DoD Manual 8570.01-M Chapter 6. Contractor personnel whose IT access falls under the Technical Category, Management Category, Architecture and Engineering Specialty, or Network Defense-Service Provider Specialty require IA training and certification in accordance with DoD Manual 8570.01-M Chapter 3, 4, 10, or 11, as applicable.

C.11 GOVERNMENT-FURNISHED MATERIAL (GFM): TBD

C.12 GOVERNMENT-FURNISHED INFORMATION (GFI): See Technical Data Package for the AN/SPA-25H Revision 5.

C.13 TOOLS AND EQUIPMENT: The tools and equipment needed to complete this contract are considered to be common tools and/or equipment of the trade and shall be supplied by the Contractor except for specific items listed as GFE.

C.14 TRAVEL REQUIREMENTS: The Contractor is not authorized to perform any travel that is not in conjunction with this contract. Travel shall be performed in accordance with the Joint Travel Regulations (JTR).

C.14.1 CONTRACT TRAVEL REQUIREMENTS: Travel under this contract will be as defined under individual Task Orders.

C.15 TRANSPORTATION OF EQUIPMENT/MATERIAL: The shipment of both Government and Contractor furnished items are required for the performance of this contract. Typical items include any or all of the below:

- a. AN/SPA-25H Indicator Group
- b. Equipment/components and piece/parts
- c. System documentation
- d. Tools & Test equipment

C.15.1 Packing and packaging shall be as specified within each Delivery order. Shipments weighing less than 25 pounds shall be shipped by any expedient method including overnight air express; shipments weighing 25 pounds and greater shall be shipped surface freight. Written requests (including electronic mail) for exception will be approved by the COR on a case basis. Classified items shall be protected in accordance with the Industrial Security Manual.

C.15.2 All government property being received for custody by the Contractor and all government property being transferred from Contractor custody shall be documented on a DD Form 1149. Should property being received for custody not be accompanied by a DD Form 1149, the Contractor shall prepare one, obtain the necessary signatures (if possible, or annotate the circumstances), and process copies in the usual manner.

C.15.3 Upon completion of this contract, the Contractor shall return to the Government, by the most expedient method, all GFI, GFM, and GFE that is in the possession of the Contractor at time of contract completion.

C.16 TRAINING: The Contractor is expected to provide fully trained and competent personnel to accomplish this contract. No costs associated with the training of contractor personnel will be reimbursed. The title of the event is irrelevant (conference, seminar, symposium, etc.); if there is a fee charged to participate, it is considered training and will not be reimbursed.

C.17 TYPE OF CONTRACT: This contract will consist of both Firm Fixed Price (FFP) and Cost Plus Fixed Fee (CPFF) type delivery orders.