Aerospace Management Systems Division

Air Force Life Cycle Management Center
Weather Systems / Weather Systems Branch
(AFLCMC/ESAW)

Performance Work Statement (PWS)

for the

AN/TMQ-53 Tactical Meteorological Observing System
(TMOS)

Contractor Logistics Support (CLS)

Contract Number:

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Prepared by:

AFLCMC/ESAW,
75 Vandenberg Drive, Building 1630
Hanscom AFB MA O1731

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1. INTRODUCTION

The TMQ-53 Contractor Logistics Support (CLS) effort will provide the necessary support to sustain the currently fielded TMQ-53 systems in their approved configurations worldwide, in accordance with (IAW) the requirements, as stated in this PWS and the TMQ-53 TRD. These systems are capable of accurately sampling, measuring, and reporting temperature; wind speed, and direction; visibility; cloud base height and amount of coverage; pressure; liquid equivalent precipitation accumulation; and freezing precipitation. These measurements will be used to derive elements that are required to create properly formatted, fully automated observations that comply with applicable reporting requirements. The systems detect, collect, and publish/deliver this information, which is then ingested by Air Force Weather Weapon System (AFWWS) weather forecast systems.

The effort outlined in this PWS will provide a single prime Contractor to sustain the AN/TMQ- 53 Tactical Meteorological Observing Systems. In order to meet these requirements the Air Force (AF) Life Cycle Management Center (AFLCMC) Weather System Branch (AFLCMC/ESAW) developed a Performance Work Statement (PWS) and the TMQ-53 system's Technical Requirements Document (TRD), for the Contractor to adhere to under the TMQ-53 contract.

The TMQ-53 Contractor Logistics Support (CLS) effort will provide the necessary support to sustain the currently fielded TMQ-53 systems in their approved configurations worldwide, in accordance with (IAW) the requirements, as stated in this PWS and the TMQ-53 TRD.

The AN/TMQ-53 is an automated, tactical suite of weather sensors that provides immediate local weather conditions worldwide, including austere locations, forward operating locations, and remote sites. The AN/TMQ-53 TMOS is capable of measuring or calculating cloud coverage, cloud base height, surface visibility, present weather and precipitation detection (type, intensity, accumulation, and rate of fall), and lightning detection (direction and range), as well as Iridium satellite communications capability. The AN/TMQ-53 TMOS system supports flight operations, combat missions, and emergency and medical evacuations in strategic locations. The number of systems fielded may fluctuate.

2. SCOPE

This Performance Work Statement (PWS) defines the requirements for the CLS necessary to sustain the currently fielded TMQ-53 systems, in their baseline configuration worldwide IAW the requirements.

This includes, but is not limited to Program Management, Logistics Support (Helpdesk Support, Maintenance, Spares and Repair Management), Operational, Safety, Suitability, and Effectiveness (OSS&E) impact analysis, Test and Evaluation support, Configuration Control Board (CCB) support, and Obsolescence and Systems Engineering. Further, all system performance data, such as System Availability rates, Mission Capable rates, and Mean Time between Failure (MTBF) rates, shall be collected and reported. Additionally, program data shall be collected and reported, such as Government-Furnished Materiel-A (GFM-A) Management, materials, shipping, travel, etc., Computer Resource Support, Engineering Change Proposals (ECP), Cybersecurity, Technical Manual development and maintenance, and Contract Data Requirements List (CDRL) deliverables. The Contractor shall also

support and/or perform system design changes, upgrades, and enhancements due to technical refresh of component capability, obsolescence, and diminishing sources. Any travel directed by the Government, not specified under the CLS Contract Line Item Number (CLIN), will be completed under the Travel CLIN. The Contractor shall provide worldwide support, however there is no requirement for the Contractor to travel to an overseas location in the performance of this contract.

3. SERVICES SUMMARY

3.1 PERFORMANCE OBJECTIVES

The Contractor shall plan, manage, organize, direct, schedule and control all resources, processes, activities and tasks necessary to accomplish the requirements of this PWS and of the TMQ-53 TRD. The Contractor shall provide a timely, accurate, and complete Integrated Master Schedule (IMS) program schedule (Microsoft Project Government actual version MS Project) in the Program Management Plan (PMP) and performance status in the Status Report. The Government will evaluate Contractor performance, focusing on objectives in the Services Summary and on the Contractor's ability to fulfill overall PWS and TMQ-53 TRD requirements. ***CDRLA010 DI- MGMT-81797 Program Management Plan; A008 DI-MGMT-80368A Status Report.***

3.2 SERVICES SUMMARY

Table 3 - 1 includes performance standards (metrics) the Government will use for monitoring daily Contractor performance. These metrics are a meaningful measure of Contractor performance. This PWS is based upon the premise that the Contractor is responsible for management and quality control actions to meet the terms of the contract. Government Representatives (e.g., COR,) will audit the Contractor's processes and will use data such as the Status Reports to aid in assessing and verifying the Contractor's performance. If it is determined that the Contractor lacks processes to meet the standards listed in this PWS and contract, then the Contractor shall be required to establish a corrective action plan to correct identified deficiencies. The absence of any contract requirement from the Services Summary shall not detract from its enforceability nor limit the rights or remedies of the Government under any other provision of the contract. The Government will track all information, including correctable actions, and may use it for reporting purposes.
CDRLA008 DI-MGMT-80368A Status Report; CDRLA014 DI-MGMT-80501/T Contractor's Corrective Action Plan.

Table 3-1: Services Summary

Performance Objective	PWS Section	Performance Threshold
a. The Contractor shall plan, manage, organize, direct, schedule and control all resources, processes, activities, and tasks to accomplish the requirements of this PWS and of the TMQ-53 TRD efficiently and effectively, and provide the level of support required to sustain the TMQ-53 at 96% Operational Availability (Ao).	5, 6, 7, 8, 9, 10	Performance is acceptable when TMQ-53 systems are sustained at 96% Ao worldwide during any month under contract or correctable to 96% within 10 business days during any month under contract (with a report showing the correction provided within 10 business days at no additional cost to the Government). The Contractor shall always report the actual Ao.
b. The Contractor shall meet all Helpdesk requirements and Helpdesk performance, including staffing, hours, trouble calls, and logging.	7.4	Helpdesk requirements and performance requirements are met 90% of the time and are correctable to 100% within 10 business days at no additional cost to the Government.
c. The Contractor shall provide spares to operating locations within 24 hours of receiving a requirement for installations in the continental United States (CONUS), within 96 hours of receiving a requirement for military installations OCONUS that accept commercial shipments., and within 72 hours to port of embarkation and/or military installation as required for destinations outside of continental United States (OCONUS). If a fielded system goes missing, declared as a combat loss, and needs replaced, the Contractor shall always have enough spare components to build two (2) complete systems. Upon notification from the COR/PCO that a replacement system is needed, the Contractor shall have 5 business days to build the complete system and follow the same shipment guidelines written in the previous paragraph of this section.	7.4, 7.6, 7.9	On-time deliveries are achieved 90% of the time and correctable to 100% within 10 business days at no additional cost to the Government.
d. The Contractor shall plan and execute an orderly transition.	5	Transition activities adhere to plan 95% of the time and are correctable to 100% within three business days at no additional cost to the Government.
e. The Contractor shall deliver quality data submittals IAW the CDRL.	2	Deliverable items received on-time with no more than two errors corrected to error free within 10 business days at no additional cost to the Government.
f. The Contractor shall perform property control and maintain a 98% or better inventory accuracy for components and determine repair recommendations to ensure that requisitions are filled immediately from stock on-hand.	7.6	Performance is acceptable when the percentage of requisitions that are filled immediately from stock on-hand meets or exceeds 98%.

4. COST REPORTING

The Contractor shall provide monthly cost and hours reporting. CDRL A022 DI-MGMT-80368A/T Status Report (Finance Report)- See Attachment on the last page of Exhibit A for a detailed report.

5. TRANSITION REQUIREMENTS

5.1 TRANSITION PHASE-IN

The Contractor shall have up to 45 calendar days from date of contract award to transition to full operational sustainment, ensuring an orderly transition from the incumbent(s) without impact on system operations. This transition shall be accomplished IAW the Transition Plan, which is incorporated into the contract. The Transition Plan shall include a Staffing Plan. It shall detail how employees meet the technical requirements of this PWS. The Staffing Plan shall reflect strategy regarding personnel recruiting and retention. If recruiting includes employees not currently employed by the Contractor, the plan shall support the intent to hire. The Staffing Plan shall describe not only staffing during the transition period but maintaining staff throughout the contract. As part of the transition, the Contractor shall maintain a staff of core personnel. Core personnel include the personnel working the day-to-day support and engineering issues to maintain the program for the TMQ-53 CLS activities. Upon contract award the Contractor shall implement the CLS Transition Plan, reference Section 5.1.1. Transition from incumbents shall be completed no later than 45 calendar days following contract award, as identified in the Contractor's transition plan. Cutover date is date the Contractor shall assume all tasks and requirements without reliance on incumbent. Contractor is responsible for all efforts and material related to making the property available for use, such as payment of all transportation, installation and/or rehabilitation costs. Prior to cutover date the Contractor shall work with the incumbent in order to provide a seamless transition to the user.

The total transition phase-in period for the TMQ-53 shall be no more than 45 calendar days from the date of contract award. The Contractor shall interact professionally to plan and execute an orderly transition from the previous incumbent Contractors. During the transition period, the Contractor shall execute the Transition Plan, taking all actions required to achieve full performance of this PWS. The awardee shall not be required to perform CLS during the transition phase-in period of 45 calendar days; as the previous incumbent will be performing CLS during this time. The new Contractor assumes full responsibility for all CLS activities on day 46 after contract award. Cutover date is date the Contractor shall assume all tasks and requirements without reliance on incumbent. Prior to cutover date the Contractor awardee shall work with the incumbent in order to provide a seamless transition.
CDRL A027 DI- MGMT- 81948 Management Plan (Transition Plan).

5.1.1 Transition Plan

Upon contract award the Contractor shall execute the Transition Plan. The Contractor shall deliver the draft plan as part of the proposal. The Contractor shall use the Transition Plan to

track completion of milestones documenting Contractor readiness to assume the TMQ-53 Contractor Logistics Support. The Contractor will receive all Government Furnished Equipment (GFE) available during the transition period. The Contractor shall coordinate the property acceptance with the Government in advance, in order to be present for the property transfer. An inventory list shall be provided to the Government: Administrative Contracting Officer (ACO), PCO, and Program Manager (PM).

The Contractor shall be required to accomplish the following tasks within the transition time frame and IAW this PWS and the TMQ-53 TRD:

- Hire trained and/or train personnel to meet necessary certifications defined in this PWS, and shall provide aforementioned certifications upon request
- Establish material and logistics support, including overseas shipping arrangements
- Execute any required sub-contract agreements
- Obtain Integrated Maintenance Data System (IMDS) or equivalent system training to train employees that will staff the Contractor's helpdesk-training will be provided by the Government
- Receive Common Access Cards (CAC)/applicable identification from nearest military base
- Transition all GFP
- Perform and verify a complete inventory of the GFE
- Develop a spares plan and for purchasing sensors from Original Equipment Manufacturer (OEM) as required and an OEM membership agreement in order to support all fielded systems
- Coordinate all transition phase-in matters associated with the Contractor's take-over of the CLS maintenance and logistics functions to enable the Contractor's personnel to perform the requirements specified in this contract

CDRLA027 DI-MGMT-81948 Management Plan (Transition Plan).

5.l.2 Transition of Government Furnished Property (GFP)

5.1.2.1 GFP Transition Plan

The Contractor shall submit a comprehensive GFP Transition Plan to the Government PM within 15 duty days of contract award. This plan shall detail the schedule, logistics, and coordination strategy for the complete transfer of all GFM and associated records from the incumbent contractor.

5.1.2.2 Joint Physical Inventory (JPI) and Asset Verification

The Contractor shall participate in a 100% Joint Physical Inventory (JPI) of all GFM at the incumbent contractor's facility. The JPI is a mandatory event to be conducted prior to the shipment of any property. The JPI shall be formally scheduled and attended by, at a minimum, authorized representatives from the gaining Contractor, the incumbent contractor, and the Government (e.g., Program Office, DCMA Property Administrator). During the JPI, the Contractor shall physically verify all property against the incumbent's final inventory records and the Government's Accountable Property System of Record (APSR), ELMS. This includes verifying part numbers, serial numbers, quantities, and the physical condition of the assets. All

overages, shortages, or damages identified during the JPI shall be documented on a Report of Discrepancy (e.g., SF 364 or equivalent) and signed by all parties. The Government PM will provide final determination regarding liability and disposition instructions for all discrepancies. No property under dispute shall be shipped without explicit Government direction.

5.1.2.3 Transition of Accountable Records

Concurrent with the JPI, the incumbent contractor shall provide a complete data transfer of all accountable records to the gaining Contractor, in a government-approved electronic format. This shall include, but is not limited to:

- Final Physical Inventories Report summarizing the results of the JPI, including all signed discrepancy reports, as part of the transition activities. *CDRL A023 DI MGMT-80259/T Physical Inventories Report.*
- Historical maintenance records and IMDS data associated with the property.
- A final list of all assets Due-In From Maintenance (DIFM), in-transit, or otherwise owed to the Government at the time of transition.

5.1.2.4 Property Shipment and Acceptance

Only upon the successful completion of the JPI and Government acceptance of the final signed inventory and discrepancy reports shall the Contractor be authorized to arrange for the shipment of GFP. The incumbent contractor is responsible for preparing all GFP for shipment (e.g., packaging, preservation, and palletizing) IAW standard military practices. The gaining Contractor is responsible for all costs associated with transportation from the incumbent's facility to their own. The Contractor shall notify the AF PM when they have made arrangements for retrieval of the GFP (pickup/load and transport) with a commercial shipping company. The Contractor's formal acceptance of accountability for the GFP occurs upon receipt and signature of the joint inventory lists. The Contractor shall update ELMS to reflect their possession of the assets within 48 hours of receipt at their facility.

Access to the previous incumbent's facility by the commercial shipping company must be coordinated with the AF PM. The Government may direct incremental shipments since the previous incumbent will be performing CLS during this time. If there are any repair or spare parts that the previous incumbent Contractor owes to the Government but has not yet delivered by the end of the transition phase-in period, the Contractor may coordinate with the AF PM to have such parts available for Contractor pickup and shipment, utilizing a commercial shipping company, after the transition period. The Contractor shall perform and verify a complete inventory of the GFP after the transfer of GFP from the incumbent Contractor. The Contractor shall report inventories to the AF PM. The Contractor is responsible for all efforts and material related to making the property available for use, such as payment of all transportation and installation costs, etc. ***CDRL A023 DI- MGMT- 80259/T Physical Inventories Report.***

5.1.3 Transition Phase-In Status Reporting

During the transition phase-In, the Contractor shall conduct, at a minimum, a weekly status teleconference (day of week to be directed by PM) with the Program Management Office (PMO) and submit weekly updates to the initial Transition Plan until the transition has concluded. Status shall include successful completion or failure to complete the transition plan milestones due during the previous week. If the Contractor fails to meet any milestones, the Contractor shall state remedial measures it is taking to ensure the transition shall not be delayed or post transition performance affected. ***CDRLA027 DI-MGMT-81948 Management Plan (Transition Plan).***

5.2 TRANSITION PHASE-OUT

The transition phase-out period is defined as the last 90 calendar days of contract performance. Within 90 calendar days of termination or completion of the contract, if the contract is awarded to other than the incumbent, the incumbent Contractor shall cooperate to the extent required to permit an orderly change over to the successor Contractor or organic facility, provide reasonable support to the Government and the new Contractor to ensure an orderly transition and minimize disruption to mission activities. The Contractor shall submit a Phase-Out Transition Plan. The Contractor shall continue to perform CLS through the last day of the contract. During the 90-day phase-out transition, the incumbent Contractor shall continue to manage and maintain accountability of material in the pipeline until transferred over and delivered to the awarded Contractor and accepted by the Government. The Contractor shall maintain all engineering data developed to support the requirements of this PWS and the TMQ-53 TRD and shall include it as GFP to the follow-on Contractor or the Government. At the conclusion of the transition phase- out period, the Contractor shall provide an accounting of all GFP to the AF PM, Property Manager, and PCO IAW applicable contractual clauses to ensure that accountability of all property has been successfully transferred to the new CLS provider IAW PCO/AF PM directions. ***CDRL A027 DI- MGMT-81948 Management Plan (Transition Plan); CDRL A023 DI-MGMT-80259 Physical Inventories Report.***

6. PROGRAM MANAGEMENT

6.1 PROGRAM MANAGEMENT PLAN

The Contractor shall prepare and maintain a Program Management Plan (PMP) for the TMQ-53 program which shall detail the approach and plan by which the Contractor will effectively execute all of the requirements of this PWS and the TMQ-53 TRD. The PMP will include a support concept and Spares Management Program, Repair Management Process, Transportation Plan, a Risk Management Plan, and a Staffing Plan. The Contractor shall establish a management process to ensure high quality sustainment support services throughout the term of this contract. Contractor personnel shall not divulge any information regarding files, data, reports, processing activities/functions, user IDs, passwords, or other knowledge that may be gained, to anyone who is not authorized to have access to such information. ***CDRL AO1O DI- MGMT-81797 Program Management Plan.***

6.1.1 Risk Management

As part of the PMP, the Contractor shall develop, implement, and maintain a risk management process to manage technical risks (e.g., performance, requirements stability/traceability, externally imposed requirements) and management risks (e.g., cost, schedule, staffing). The Contractor shall describe processes for the following: identification of risks, proactive planning for risks, assessing risks, monitoring of risks to identify deviations from planned events, management of risk (including implementation of mitigation actions), and reporting. The Contractor shall consistently use established risk management processes to manage, mitigate, and report risks in areas where the Contractor is responsible for management activities.
CDRL A01 0 DI-MGMT-81797 Program Management Plan; A008DI-MGMT-80368A Status Report.

6.1.2 Security Management

The Contractor shall apply Operations Security (OPSEC) in their management of the TMQ-53 CLS program IAW S 10-701 Operations Security, the TMQ-53 CLS OPSEC Plan, Security Classification Guide (SCG), and the program's Critical Information List. The Contractor shall provide OPSEC and Cybersecurity (CS) training as part of its overall training requirements for protecting sensitive or controlled unclassified information, activities, and operations during the course of the contract. The Contractor shall provide evidence of a program to be in compliance with NIST 800-171 IAW DFARS Subpart 204.73., CUI data will be processed under this contract, how data is classified will be handled by the Government on a case-by-case basis.

6.2 CONTRACTOR PERSONNEL

The Contractor shall identify to the Government and maintain a single point of contact (Program Manager or equivalent) with sufficient corporate authority to direct, execute and control all elements of this contract. The Contractor shall also ensure that program management personnel assigned to the program shall be available, as required, to meet program objectives. The Contractor shall at all times staff a qualified work force for the uninterrupted performance of all requirements of this PWS and the TMQ-53 TRD. The PMP shall contain a staffing plan that lists key personnel, their roles/responsibilities, certifications, qualifications, and experience. The plan shall include any cross utilization, an employee retention plan, and all subcontractor participation. This plan will be required annually, however any personnel updates and/ or changes should be submitted by email within 72 hours as an amendment to the staffing plan. Any changes to key personnel must include equivalent qualifications and credentials of the same or substantially similar background experience. Key personnel are defined as individuals who will have a primary responsibility in accomplishing the elements of this PWS, and who are anticipated to provide the stability necessary to ensure continuity during the contractual time period of the program.
Employees who require a CAC/applicable identification to perform duties under the TMQ-53 PWS, TRD, and Sensor Specification Document (SSD), shall submit the appropriate documentation in order to obtain a CAC/applicable identification. The Contractor shall be responsible for obtaining all hardware and software required to perform duties as they relate

to accessing CAC enabled content, such as Government websites. Contractor personnel shall abide by all USAF rules, procedures, and standard of conduct. ***CDRL A010 DI-MGMT-81797 Program Management Plan; A024 DI-MGMT-82001A/T D.O.D. Risk Management Framework (RMF) Package.***

6.2.1 TMQ-53 Third Parties

The Contractor shall interface with other TMQ-53 Contractor(s), vendors, and Original Equipment Manufacturers (OEMs) as needed to provide system parts. The Contractor shall interact with Contractors of systems that are connected to the TMQ-53, such as Enhanced Sensor Collection Appliance (ESCA). Also, the Contractor shall enter into an Associate Contractor Agreement (ACA) within 60 days after contract award for any portion of the contract requiring joint participation in the accomplishment of the Government's requirement. The agreements shall include the basis for sharing information, data, technical knowledge, expertise, and/or resources essential to the integration of the TMQ-53 which shall ensure the greatest degree of cooperation for the development of the program to meet the terms of the contract. ***CDRLA010DI-MGMT- 81797 Program Management Plan.***

6.3 MEETINGS

The Contractor shall conduct and/or attend any Government requested meetings in performance of this contract to include, but not limited to Integrated Product Team (IPT) meetings and helpdesk ticket meetings by teleconference, Technical Interchange Meetings (TIMs), Program Management Reviews (PMRs), Configuration Control Board (CCB) meetings, and Technical Order IPT meetings, including Validation/Verification events (see Section 10). The AN/TMQ-53 IPT will meet by video conferencing or Teams meetings weekly for one hour and the helpdesk ticket meeting will also be held weekly by video conferencing or Teams meetings for one hour, unless the Government deems these meetings not required or required less frequently. The Contractor shall establish a video teleconference meeting or call-in number. While PMR and TIM locations may vary, the Contractor shall be prepared to host all PMRs and TIMs at the Contractor's facility and attendees shall include Government personnel and may include Government Contractor personnel. If Government personnel are unable to travel to the Contractor facility due to funding constraints or other reasons, the Contractor shall support video conferencing, Teams meetings or any other Government collaboration website.
For all face-to-face meetings, including video conferencing or Teams meetings, the Contractor shall provide the meeting invitation and Conference Agenda to the AF PM (with a cc: to the PCO) via electronic mail (e-mail) at least 10 calendar days in advance of scheduled meetings (draft invitation and conference agenda shall be submitted 30 calendar days in advance for Government comment/revision). The Contractor shall also deliver Conference Minutes with action items identified, via e-mail to the AF PM. The final Conference Minutes shall include an attendee list and a soft-copy of any Presentation Materials. In addition, the Contractor shall provide hard copy Presentation Materials for up to ten attendees for all face-to-face meetings. For weekly IPT meetings, the Contractor shall track and provide action items that will serve as minutes from each meeting. ***CDRLA001***

DI-ADMN- 81249B Conference Agenda; CDRLA002 DI-ADMN-81250B Conference Minutes; CDRL A003 Presentation Material; CDRL A017 DI-ILSS-80483 Spare Parts Usage Report.

6.3.1 Program Management Review (PMR)

During first year of the contract and for the remaining years of the contract there will be one PMR each year at a USG CONUS location and one PMR each year at the Contractor's location. The Government reserves the right to move the location of any PMR from a USG CONUS location to the Contractor's location or host virtually. The Contractor shall present program status, parts obsolescence issues and remedies, future year planning, current modification efforts, technical and programmatic issues, Contractor performance, deficiency reports, quality issues and risks, and any special interest items identified by the Government at PMRs in Microsoft PowerPoint format. The Contractor shall formally address the Technical Order and any applicable Time Compliance Technical Orders (TCTO). In addition, the Contractor shall brief an accumulation of the monthly Status Reports for the period preceding the PMR (since the last PMR). The Contractor's management shall address quality issues and risks at all PMRs. The AF PM and the Contractor's PM shall co-chair PMRs. The Government and the Contractor shall agree upon the date(s) of PMRs. Attendees may include Government and third-party Contractor personnel. ***CDRL A008 DI-MGMT-80004A Status Report; A001 DI-ADMN-81249B Conference Agenda; A002 DI-ADMN-81250B Conference Minutes; A003 DI-ADMN-81373 Presentation Material; A013 DI-QCIC-81794A Quality Assurance Plan; A009 TM-86-0JP/T Technical Order and Associated Supplemental Data.***

6.3.2 Technical Interchange Meeting (TIM)

The Contractor shall support twenty-four (24) TIMs per year by teleconference unless the Government deems these meetings not required or required less frequently. Additionally, the Contractor shall attend two (2) in person TIMs per year at a Government facility or host at their facility unless deemed not required by the Government. TIMs may be held in conjunction with PMRs if directed by AF PM. Attendees at TIMs may include Government and third-party Contractor personnel. TIMs are used to discuss any technical topics related to the program (e.g. equipment, parts support, and test/IA issues). The Contractor shall formally address Technical Orders and any applicable TCTOs. The Government and the Contractor shall agree upon the date(s) of TIMs. ***A001 DI-ADMN-81249B Conference Agenda; A002 DI-ADMN-81250B Conference Minutes; CDRLA003 DI-ADMN-81373 Presentation Material; A017 DI-ILSS- 80483 Spare Parts Usage Report; A009 TM-86-0JP/T Technical Order and Associated Supplemental Data.***

6.3.3 Interface Control Working Group (ICWG)

The Contractor shall hold ICWG meeting once a quarter unless deemed not required by the Government. The Contractor shall discuss and maintain the external and internal interfaces necessary for system operation across both systems. The Contractor shall formally address

Technical Orders and any applicable TCTOs as needed during ICWGs. The Government and the Contractor shall agree upon the date(s) of ICWG meetings. ***A001 DI-ADMN-81249B Conference Agenda; A002 DI- ADMN-81250B Conference Minutes; CDRL A003 DI-ADMN-81373 Presentation Material; AO17 DI-ILSS-80483 Spare Parts Usage Report; A009 TM-86-0J/Tl Technical Order and Associated Supplemental Data.***

6.3.4 Change Control Board (CCB)

The CCB consists of Government personnel from various functional areas, including a CCB Chairperson who is the approval authority for any configuration changes to the system. Upon Government request, the Contractor shall participate in the CCB process as a technical advisor and shall attend CCB meetings. See paragraph 6.3 for more detail.

6.3.5 Post-Award Conference

The Contractor shall schedule and host a post award conference at its facility no later than 15 business days following contract award. The purpose of the meeting is for the Contractor to demonstrate to the Government their management procedures, provide progress assessments, discuss data delivery, review of technical and other specialty area status (including Technical Order sustainment), introduce the Contractor team to the Government, and establish schedule dates for near term critical meetings and actions. The Contractor shall present its PMP at the post-award meeting which defines the planned work, including all requirements established in this PWS. The Contractor shall discuss the Government's objectives, performance requirements, contract constraints and program risks. ***CDRL A01 0 DI-MGMT-81797 Program Management Plan; A001 DI-ADMN-81249B Conference Agenda; A002 DI-ADMN-81250BConference Minutes; CDRL A003 DI-ADMN-81373 Presentation Material; A017 DI-ILSS- 80483 Spare Parts Usage Report.***

6.4 REPORTING PROGRAM STATUS

The Contractor shall maintain and report applicable program status to include, but not limited to: performance status of all AN/TMQ-53 systems, Repair Status, Product Quality Deficiency Reporting (PQDR), description of warranty work (including part numbers, quantity, date, description of failure, and estimated delivery date), impacts to maintenance philosophies, Response Metrics, Schedules, Spending Plan, status of any outstanding Information Assurance Vulnerability Alerts (IAVAs)/Time Compliance Network Orders (TCNOs), breakdown of labor category hours expended, total repair costs to date, all other costs incurred by category (including itemized shipping costs), safety incidents, shipping or customs issues, open ticket duration/aging tickets to support monitoring of program status, user feedback, Stock Availability, Mean Time To Restore Function (MTTRF) and detail of the Operational Availability rates [i.e., Fully Mission Capable (FMC), Partially Mission Capable (PMC), or Non Mission Capable (NMC), as defined in this PWS in Section 7.1]. The Contractor shall deliver the metrics, including all updates, in accordance with the CDRL for Status Reports within the first 15 calendar days of the month after the data was recorded. The Spare Parts Usage Report shall contain spare parts ordered and shipped during the

reportable month, including requisition status (Open/Closed), location/site, tracking status (i.e., date and time ordered, date and time delivered). The Contractor shall report all requisitions. Additionally, the Contractor shall report breakdown of labor category hours expended for CLINs which encompass Contractor Logistics Support. ***CDRL A008 DI-MGMT- 80368A Status Report; CDRL A017 DI-ILSS-80483 Spare Parts Usage Report.***

6.5 QUALITY ASSURANCE

6.5.1 Quality Management System (QMS)

The Contractor shall be International Organization for Standardization (ISO) 9001 certified or obtain ISO certification within six months following contract award. The Contractor shall maintain ISO certification throughout the term of the contract. The Contractor shall implement and maintain a QMS that is compliant with the ISO 9001 standard for quality management. The QMS shall apply to all activities and functions performed under this contract. The QMS shall establish policies and procedures that the Contractor shall follow and control in the performance of all work. For ISO 9001 the Contractor is responsible to maintain equivalency if standards change or are updated (e.g., ISO 9001:2015). The Government will audit the Contractor's QMS and the Contractor shall support each audit. ***CDRL A008 DI-MGMT- 80368A Status Report; CDRL A013 DI-QCIC-81794A Quality Assurance Plan.***

6.5.2 Quality Assurance Program Plan (QAPP)

Under the tenants of the QMS, and the guidance provided under ISO 9001, the Contractor shall develop and document a QAPP. The Contractor shall deliver the QAPP within 30 calendar days of contract award and update annually thereafter. The Contractor's quality organization shall have the autonomy and independence to implement the quality plan. The Contractor's management shall regularly review the quality assurance plan and address quality issues and risks at all PMRs. As part of the QAPP, the Contractor shall develop, deliver, and maintain a cross-reference matrix of contract requirements to Contractor operating instructions/work instructions. The Contractor shall keep the matrix current. The Contractor shall cooperate with and provide assistance during Government quality assurance inspections and audits upon request. The Government may provide results and findings. The Contractor shall report corrections for all discrepancies found during Government inspections, audits and surveillances in the Status Report. The Contractor shall provide, implement, and maintain a tracking system to record and track audits, surveillances, inspections, testing schedules, quality issues, and results. The Contractor shall track corrective actions, analyze trends, maintain quality assurance records/data, and any other applicable information as needed by the Government. ***CDRL A013 Dl-QCIC- 81794 Quality Assurance Plan; CDRLA008 DI-MGMT-80368A Status Report.***

6.6 TRAVEL

The Contractor shall be required to travel in support of meetings, test events, technical

assistance or other on-site visits as deemed necessary. The Contractor shall submit a travel estimate and obtain AF PM and/or PCO Authorization for specific travel on a funded line item. Authorization to travel is not an assurance of funds. The Contractor must ensure that the appropriate amount of funds are available prior to requesting authorization to travel. Travel reimbursement will be in accordance with Federal Acquisition Regulation (FAR) 31.205-46. The Contractor shall adhere to the proper procedures for Contractor personnel access to travel locations, including completion of Letters of Introduction, Visit Requests and any other travel documentation necessary for access.
The Contractor shall follow all security procedures with regard to the conduct and entry of contract personnel at Government sites or any Government Contractor facility.

6.7 SAFETY REQUIREMENTS

The Contractor shall comply with all safety provisions in Appendix D. The Contractor shall protect Government property to prevent damage during the period of time the property is in the possession of the Contractor. The Contractor shall report promptly (within 1 business day of occurrence) to the PCO, ACO, and COR all available facts relating to each instance of damage to Government property. If the Government elects to conduct an investigation of the accident/incident, the Contractor shall cooperate fully and assist Government personnel until the investigation is completed. The Contractor shall submit their System Safety Program Plan (SSPP) and Accident/Incident Report IAW Appendix D and the CDRLs. ***CDRL A026 DI-SAFT- 81626 System Safety Program Plan; A025 DI-SAFT-81563 Accident/Incident Report.***

6.8 CONTRACTOR SERVICE CONTRACT REPORTING

The Contractor shall report all Contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract via a secure data collection site. The Contractor is required to completely fill in all required data fields at https://SAM.gov. If the Government implements another system equivalent to SAM, the Contractor shall retain the same responsibility for the new database. Reporting inputs will be for the labor executed during the period of performance for each fiscal year (FY), which runs 1 October through 30 September. While it is possible to report any time during the FY, the Contractor shall report all data no later than 31 October of each calendar year. Contractors may direct e-mail questions to the DoD SAM helpdesk at https://sam.gov/help.

7. LOGISTICS SUPPORT

7.1 DEFINITIONS

7.1.1 Fully Mission Capable (FMC)

(Green)-Report FMC (Green) when system is operating normally. IAW AFI 21-103_ACC SUP Attach 15.

7.1.2 Partially Mission Capable (PMC)

(Amber) If any sensor necessary to report visibility, winds, altimeter setting and/or discontinuity group sensor is inoperable, report the system as PMC **(Amber). Non- Mission Capable (NMC)** (Red) If the data acquisition unit (data logger) is inoperative, report system NMC (Red). IAWAFI 21-103 ACC SUP Attach 15.
(Red) If any sensor necessary to report ceilings is inoperable, report the system as NMC (Red). IAW AFI 21-103 ACC SUP Attach 15.
(Red) If all system meteorological sensors or modems are inoperative such that the system is not providing any usable data, report the system as NMC (Red). IAW AFI 21-103_ACC SUP Attach 15.

7.1.3 Stock Availability
Stock Availability is the percentage of requisitions that is filled immediately from stock on hand.

7.1.4 Mission Capable (MC)
Includes FMC and PMC.

7.2 CONTRACTOR PERFORMANCE
The Contractor shall sustain the TMQ-53 in its approved configuration worldwide at an Ao of 96%. The performance of the Enhanced Sensor Collection Appliance (ESCA), when connected to the TMQ-53, is covered by a separate contract. The Contractor shall use the following expression in calculating the Ao:

$$A_0 = \frac{\textit{Total MC Hours}}{\textit{(Total MC Hours + Total NMC Hours)}}$$

Mission Capable (MC)- Includes FMC and PMC time. The formula for MC hours:

MC Hours= FMC Hours+ PMCM Hours+ PMCB Hours+ PMC Hours

The formula for MC rate: is determined by FMC hours + PMCM hours + PMCB hours + PMCS hours/Possessed hours.

$$\textit{MC Rate} = \frac{\textit{MC Hours}}{\textit{Possessed Hours}}$$

Non Mission Capable (NMC)- NMC is defined as the total number of hours mission critical sensors are inoperable, as defined in 6.1.3.

Fully Mission Capable (FMC)-The formula for FMC rate: = FMC hours/Possessed hours.

$$\textit{FMC Rate} = \frac{\textit{FMC Hours}}{\textit{Possessed Hours}}$$

All PMC and NMC hours are excluded in this formula. Partially Mission Capable (PMC)

-The formula for PMC rate:

$$\text{PMC Rate} = \frac{\text{PMC Hours}}{\text{Possessed Hours}}$$

Stock Availability-The Contractor shall maintain a Stock Availability of 98%.

$$\textit{Stock Availability} = 100 - \frac{\textit{backorders}}{\textit{net Demands}}$$

Contractor performance shall be reported in the Monthly Status Report and briefed at all PMRs.

CDRL A008 DI-MGMT-80368A Status Report.

7.3 EXCEPTIONS

If the TMQ-53 system is operating at PMC or NMC due to an event outside the scope of the CLS provider as identified in this PWS, then the Contractor shall not include those operating hours as part of the availability formula above. The Contractor shall report actual Ao and revised Ao with exceptions listed in the Monthly Status Report. Section 7.3.1 lists acts outside of Contractor control.

7.3.1 Acts Outside of Contractor Control

The following bullets describe the acts outside of Contractor control: ***CDRL A008 DI-MGMT-80368A Status Report***

- Natural disaster (earthquake, tornado, hurricane and flooding), does not include lightning if system is properly employing lightning ground system. Acts of war (damage from weapons)
- Government travel time before troubleshooting begins. Government delay in implementing parts replacement/field repairs.
- Government loss/destruction of the Line Replaceable Unit (LRU), does not include normal wear and tear/PM!
- A lack of available spare and/or repair funding provided by the Government.

7.4 HELPDESK SUPPORT

The Contractor shall maintain and staff a helpdesk in support of the AN/TMQ-53. The Contractor shall be able to obtain and maintain access to the Program of Record (PoR), i.e. IMDS/ELMS. The Helpdesk provides the PMO and weather organizations with technical support on an as needed basis to assist users in troubleshooting, repairing, and returning their system to full mission capability (FMC). Helpdesk access shall be available 24 hours a day, 7 days a week, without cost or toll to the user. The Contractor shall provide Helpdesk access

with a single phone number and a single email address. The Contractor shall staff the helpdesk for live, on demand technical support during normal CONUS working hours (as a minimum, Monday through Friday, eight (8) hours per day within the hours of 6:00 a.m. to 6:00 p.m. local time at the Contractor's facility). These hours will define the regular business hours. Helpdesk personnel shall be available after working hours, including weekends and holidays. ***CDRL A008 DI-MGMT- 80368A Status Report***

7.4.1 Help desk Initial Call

The Contractor shall respond to trouble calls/emails referred from the on-site user directly. Once the trouble call/email is received by the Contractor, Helpdesk personnel shall begin troubleshooting. The Contractor will obtain the Integrated Maintenance Data System (IMDS) Work Center Event (WCE) code from Maintenance Personnel submitting the ticket. The WCE will be used to track ALL event actions from start to finish.

7.4.1.1 Integrated Maintenance Data System (IMDS) Trouble Ticket

The Contractor shall establish and maintain a process for logging all telephonic and email requests for assistance with AN/TMQ-53 parts and systems working directly with the user who will input into the Integrated Maintenance Data System (IMDS) Work Center Event (WCE). For each trouble ticket initiated by a phone call or email, the Contractor shall, at a minimum, document the following as a record as an internal help desk record/log:

- Date and time of the call
- Work Center Event Number
- Name, rank, and unit of the caller
- Serial number of the affected AN/TMQ-53 system or part
- A detailed description of the reported issue
- All troubleshooting steps taken by the contractor
- Resolution of the issue, including any parts dispatched
- Date and time of resolution

All data entry into IMDS shall be completed within 24 hours of the initial call by field user and updated as new information becomes available from the Contractor/CLS Support. The Contractor shall inform the caller to open the ticket in IMDS (if not already done so) to ensure capturing of WCE number or Job Control Number (JCN) for both Contractor and Caller.

The Contractor shall be responsible for the timely and effective resolution of all field-reported issues concerning the AN/TMQ-53 system. As part of this responsibility, the Contractor shall implement a system for capturing and tracking all maintenance actions in their internal systems/logbooks for recording and continuity. This includes, but is not limited to, all issues reported via telephone and email. The field/user will be responsible for updating and maintaining IMDS WCE and JCN actions, not the Contractor.

7.5 TICKET RESOLUTION

The Mean Time to Restore Function (MTTRF) for a fielded system shall not exceed 15 business days. MTTRF is the average elapsed time, as a result of a critical failure, required to restore a system to full operating status. MTTRF includes administrative and logistics delay times associated with restoring function following a failure.
MTTRF is defined as follows: Non mission capable unscheduled (NMCU) Hours/NMCU Events=MTTRF. NMCU refers to those times when the system is not mission capable because of unscheduled maintenance and associated delays. Government delays due to tickets referred to the Government do not count towards the 15 business days.

If assistance by the Helpdesk is not possible, the Helpdesk can recommend appropriate CLS support i.e. Enhanced Sensor Collection Appliance (ESCA) provider. If troubleshooting leads to a failed component the Contractor shall either ship a replacement part or provide the appropriate support as needed. Prior to issuing spare parts to a user, the Contractor shall query the TMQ53 TAC number database (or government provided list) to ensure that the TAC number is under contract and that it is assigned to the unit requiring parts. If Helpdesk troubleshooting is not sufficient, on-site Contractor maintenance may be required (Section 6.6). The Contractor shall coordinate with the Field Orgs to ensure IMDS accurately accounts for Helpdesk ticket support and resolution whenever possible. The contractor may or may not have access to Field org IMDS data. Upon resolution of trouble ticket, the Field org shall ensure the ticket has been closed out in IMDS. ***CDRL A008 DI-MGMT-80368A Status Report.***

7.5.1 Trouble Call Tracking

The Contractor may utilize a contractor-developed spreadsheet to capture pertinent information related to the event. Upon remediation and of system returned to Full Mission Capable (FMC) the Contractor will request an IMDS event log from submitter to be forwarded to the Contractor to be maintained for Helpdesk records. The Contractor will attach the event log and archive using the IMDS WCE code as a reference for tracking purposes. The Contractor shall document all technical assistance and maintenance actions tracked through to complete resolution, to include the delivery, installation and system functional check of replacement parts, if required. The Contractor shall report all documentation in the Monthly Status Report.

7.5.2 Mock-Ups

The Government will provide the Contractor with one complete AN/TMQ-53 systems as GFP to support Helpdesk analysis, troubleshooting system components, and sensor problems. The Contractor shall install and maintain the mock-up as field representative equipment at the Contractor's facility for the sole purpose of supporting the tasks and requirements outlined in this PWS and the TMQ-53 TRD. AF PM Approval is required for any other use of these systems. The Contractor shall manage GFP for the AN/TMQ-53 in accordance with

PWS section 11. The Contractor shall maintain the mock-up with the approved, fielded hardware configurations, current calibration and shall perform preventive maintenance to the mockup as applicable in the Technical Order. In the event of testing new components or firmware, the Contractor shall always maintain at least one mock-up with the approved configuration to facilitate helpdesk troubleshooting.

7.5.3 Iridium

The Contractor shall be the lead integrator for the Iridium satellite capability used at remote sites to communicate observations for the AN/TMQ-53. The Government will provide the Contractor with one SIM card as GFP. The Contractor shall work through the AF PM in order to maintain an active SIM card to support Satellite Communication (SATCOM) capability of each mock-up system. The Contractor shall act as the subject matter expert for Iridium communications hardware for the AN/TMQ-53 and assist users with troubleshooting in order to successfully transmit observations through the DISA gateway. The Contractor shall test all new components and coordinate with the government or other contractors to ensure Iridium communications continue to function as required.

7.6 SPARES MANAGEMENT

7.6.1 Government Furnished Material-Accountability (GFM-A)

The Contractor, acting as the Contractor-Inventory Control Point (C-ICP), shall be responsible for providing total supply chain management for all unique spare parts and support equipment associated with the AN/TMQ-53 system.

The Contractor shall implement and maintain a Property Management System (PMS) that is fully capable of interfacing with the Government's Enterprise Logistics Management System (ELMS) and Integrated Logistics Supply System (ILSS), which is the designated Accountable Property System of Record (APSR) for all GFP/GFM under this contract. This interface shall be maintained through the Defense Logistics Agency's Defense Automated Addressing System (DAAS) and shall utilize approved Defense Logistics Management Standards (DLMS) transactions for all inventory and asset reporting. The use of the ELMS Self-Service module is not an acceptable substitute for a direct, DLMS-compliant interface.

The Contractor shall have trained and authorized personnel capable of successfully performing, at a minimum, the Item Manager and Warehouse roles within the ELMS environment. The Contractor is responsible for all actions taken under these assigned roles.

All GFM shall be managed in accordance with FAR 52.245-1, Government Property. The Contractor shall establish and maintain wholesale warehouses and provide wholesale-level supply support to meet the performance metrics identified in this PWS. C-ICP support will include, but is not limited to:

- Inventory and Asset Management
- Requisition and Distribution

- Supplier Management
- Maintenance Activities
- Packaging, Handling, Storage, and Transportation (PHS&T)
- Configuration Management
- In-transit Visibility/Tracking/Reporting

Inventory Management includes all elements of inventory management: requisition processing, storage, shipment, delivery, pick-up, receiving, shipping, in-transit visibility/tracking/reporting, and property accountability, including but not limited to supply chain management knowledge. Awareness of system transactions within DLMS and DAAS so that the Item Manager can properly facilitate accountability and tracking and clearing errors that may occur.

The Contractor's C-ICP organization shall consist of Contractor personnel, processes, facilities, and computer systems that support the successful accomplishment of wholesale level warehousing to achieve performance metrics as identified in this PWS.

The Contractor's PMS is required to contain records for the program's parts that provide comprehensive logistics, procurement, and technical data required to accomplish supply support analysis, parts ordering, property accountability, and funds control.

The Contractor shall ensure these part records are structured in the PMS to maintain part configuration control, approved part substitution and interchangeability identification, serialized item control, notice of special handling requirements, and record item consumption data.

The Contractor shall comply with all inventory reporting requirements for DoD's Financial Improvement and Audit Remediation requirements. This includes, but is not limited to, accurately reporting all transactions required to maintain accountability records for contractor managed and possessed GFP in the Government's APSR. The contractor shall maintain accurate and auditable records and provide key supporting documentation for transactions within 2 business days upon request to support audit requirements. The contractor will adhere to policies for contractor- managed and possessed GFP JAW DOD and Air Force policy directives.

The Contractor's C-ICP shall determine, procure, repair, service, store, receive and dispose of unique spare parts and support equipment

Disposal of consumable/repairable components will be IAW with the assigned demilitarization code. DEMIL Codes may be found at http://dtic.mil/whs/directives/corres/pdf/416028m_vol2.pdf and DoD Manual 4160.28, Vol 2.

The Contractor shall perform property control and maintain a 98% or better inventory accuracy for components.

The Contractor shall conduct monthly 5% or greater spot-checks and conduct physical

inventories IAW DOD and Air Force policy directives.

The Contractor shall maintain a current record of the physical inventory as it progresses and report IAW provided instructions.

The Contractor shall disposition C-ICP managed property through Scrap or Disposal when it is determined not beneficially repairable, excess, or obsolete. Considerations, such as lead time for new procurement, out of production items, mission requirements and Operations Tempo, must be considered prior to determining that an asset is beyond economical repair. The contractor shall consider other considerations and their effect on performance prior to disposing of any asset determined to be beyond economical repair.

Disposition shall remove components from Contractor accountability by reducing the inventory balance in the PMS and physically scrapping in-place at a Source of Repair (SOR) or issuing disposed of property at the Main Operating Base (MOB) to the Air Force for processing. The Contractor shall maintain a record of disposition actions and report IAW reporting instructions.

The Contractor shall gain and maintain access to CSWS Data Exchange (CSWS DE)/D375. CSWS DE is the bridge between CLS activities and Air Force legacy systems that do not allow commercial access. It is the single automated source to provide mission essential packaging, shipping, and transportation data to Air Force systems. Access to CSWS DE is available through the AF Portal and requires a valid CAC/PKI, DD 2875, sponsor letter and non-disclosure statement. Forms are available through the application owner identified on the AF Portal.

The Contractor shall enter required data as identified in the CSWS DE Student Training Course Guide and the CSWS DE Checklists on the Training & Documentation page within D375. This includes, but is not limited to, basic management data, asset data, item management and equipment specialist data, packaging and transportation data, logistics reassignment data, and spares computation data.

The Contractor will ensure accurate pricing of property IAW DOD and Air Force policy directives with supported documentation. Documents supporting accountability and/or financial information will be maintained for a minimum of 10 years or Government termination of contract. ***CDRL A010 DI-MGMT-81797 Program Management Plan; CDRL A017 DI-ILSS-80483 Spare Parts Usage Report; CDRL A021 DI-MGMT-80441C Government Property Inventory Report; CDRL A023 DI-MGMT-80259/T Physical Inventories Report (CFO Inventories Report).***

7.6.2 Repair Management Program

The Contractor shall establish, document in the Program Management Plan (PMP), and execute a comprehensive Repair Management Program to support the availability of the AN/TMQ-53 system. The program shall cover the entire lifecycle of unserviceable components returned from the field.

The Contractor shall establish a process for managing the repair of all TMQ-53 repairable parts under the warranty. The Contractor shall manage this process in support of all fielded TMQ-53 locations under this contract. The Contractor shall document the repair management process in the PMP. The Contractor shall repair all components to a fully functional status.

7.6.2.1 Triage and Disposition Process

Upon receipt of an unserviceable component from a field unit, the Contractor shall not automatically perform a full diagnostic inspection. Instead, the Contractor shall perform an initial triage and screening process to determine the most efficient and cost-effective disposition path. This process shall include, at a minimum:

- (a) Initial Inspection: A visual inspection and identity verification to check for obvious physical damage, correct part/serial numbers, and cleanliness.
- (b) Condition Determination: Based on the initial inspection and accompanying documentation from the field, the Contractor shall route the asset to one of the following paths:
    1. Repair: The item is determined to be repairable and economically viable to fix.
    2. Beyond Economic Repair (BER): The item is condemned. The Contractor shall recommend replacement if the estimated cost of repair exceeds [Insert Percentage, e.g., 65% of the current government acquisition cost for a new or serviceable replacement.
    3. Warranty/OEM Claim: The item is still under an Original Equipment Manufacturer (OEM) or third-party warranty and shall be processed for a warranty claim.
    4. No Fault Found (NFF): If an item is suspected to be serviceable, it shall undergo functional testing to confirm its status before being returned to serviceable inventory.

7.6.2.2 Repair and Serviceability Standards

For all components designated for repair, the Contractor shall:

(a) Return the component to a fully functional, serviceable condition, repairing and calibrating it to meet or exceed OEM specifications.

(b) Perform a final functional and operational check on all repaired parts (whether repaired in-house or by an OEM) before inducting them into serviceable inventory.

(c) Furnish all tools, support equipment, and/or test equipment necessary to accomplish all required maintenance and ensure serviceability.

7.6.2.3 Program Management and Reporting

The Contractor shall manage and provide visibility into the entire repair lifecycle. The Contractor shall:

(a) Update the repair management process in the PMP to include any new or revised hardware components approved by the government Configuration Control Board (CCB).

(b) Provide a running summary of total repair costs incurred since the inception of the contract in the monthly Status Report.

(c) Utilize the Contractor's Corrective Action Plan (CCAP) to address any systemic issues or trends identified in the repair program.

CDRL A010 DI-MGMT-81797 Program Management Plan; CDRL A008 DI- MGMT-80368A Status Report; CDRL A014 DI-MGMT-80501/T Contractor's Corrective Action Plan (CCAP).

7.6.2.4 Systems Database

The Contractor shall maintain a database of system serial numbers (i.e., TAC-XXX). The database shall track, as a minimum, the assigned unit, current operational status, and each system TAC number. The Contractor shall update the Configuration Lists according to the latest approved CCB. ***CDRL A008 DI-MGMT- 80368A Status Report; CDRLA016 DI-SESS-80858C Supplier's Configuration Management Plan.***

Calibration

The Contractor shall be responsible for ensuring all support equipment used to verify TMQ-53 LRUs is calibrated to OEM or TRD standards, whichever is more stringent. TMQ-53 LRUs will also be calibrated prior to shipment.

7.7 WARRANTIES

The Contractor shall pass any commercial warranties obtained from OEMs on to the Government. The Contractor shall provide warranties on in-house repairs that will last 30 calendar days from delivery of the repaired component to the end user. Repairs needed during this period due to the Contractor's fault will be performed at no cost to the Government. The Contractor shall manage the warranty process for all systems and components. The Contractor shall be the single point of contact to the Government for warranty issues. The Contractor shall support and investigate PQDRs, IAW TO 00-35D-54, as they occur. The Contractor shall include in the Status Report a description of the activity on all warranty work performed. The Status Report shall include the part numbers, quantity inducted in work, date in work, description of the failure, and estimated repair delivery date to Government inventory and/or field unit for each item. The Contractor shall document and retain warranty related information for the Government. ***CDRL A008 DI-MGMT- 80368A Status Report.***

7.8 ITEM UNIQUE IDENTIFICATION (IUID)

The Contractor shall have a thorough understanding of IUID marking requirements, marking equipment, databases and their interfaces, engineering evaluation requirements, verification, data and configuration management relating to IUID marking. The Contractor shall maintain the IUID tags (markings) on all spares IAW MIL-STD-130N, dated 16 Nov 12, contract clauses, DFARS (252.211-7003, 252.211-7007), and the Contractor's IUID Marking Plan. The Contractor shall remove any incorrect markings and add markings as applicable if a

current spare does not have proper IUID markings. The Contractor shall use and update the IUID registry, located at https://wawf.eb.mil/ for all applicable GFP. ***CDRLA012 DI-MGMT-81803 IUID Marking Plan; CDRLA011 DI-MGMT-81804A IUID Marking Activity, Validation and Verification Report.***

7.9 PACKAGING, HANDLING, STORAGE, AND TRANSPORTATION (PHS&T)

The contractor shall develop, implement, and manage all PHS&T in support of the contract. The contractor shall develop and submit a PHS&T plan. The contractor shall document the PHS&T plan in the PMP. Upon troubleshooting, Program of Record (PoR), i.e. IMDS/ELMS notification, or other notification of part failure, the contractor shall deliver replacement parts within 36 hours to CONUS locations, and 96 hours for OCONUS locations that allow for commercial shipments. For OCONUS sites that require MILAIR transportation, the contractor shall deliver spares to APOEs within 72 hours from receipt of DD 1149 REQUISITION AND INVOICE/SHIPPING DOCUMENT. ***CDRLA010 DI-MGMT-81797 Program Management Plan.***

7.9.1 Shipment of Spares

Upon determining that spare parts are required, the Contractor shall ship parts to the user to arrive at user's facility within 24 hours of receiving a requirement for military installations in CONUS, and within 96 hours of receiving a requirement for military installations OCONUS that accept commercial shipments. For spares required by Military Air (MILAIR) site locations, the Contractor shall deliver spares in response to helpdesk tickets within 72 hours from receipt of MILAIR shipment clearance to Aerial Ports of Embarkation (APOE) (see section 7.9.8 for shipping). The Contractor shall provide (as necessary) spares on an off-the-shelf- basis for shipment to worldwide location upon request from the Government. If the Government establishes a Forward Supply Point at any OCONUS location, the Contractor shall ship to fill and replenish spares at the Forward Supply Points.

If a fielded system goes missing, declared as a combat loss, and needs replaced, the Contractor shall always have enough spare components to build two (2) complete systems. Upon notification from the COR/PCO that a replacement system is needed, the Contractor shall have 5 business days to build the complete system and follow the same shipment guidelines written in the previous paragraph of this section.

7.9.2 Preservation, Packaging, and Marking Requirements

The Contractor shall develop, implement and maintain the preservation, packaging and packing of all items to be delivered under the terms of this contract. Packaging procedures will be established in accordance with AFMCI 24-201, specifically Paragraph 3.7; Packaging requirements are identified in the AFMC Form 158, Packaging Requirements submitted by the responsible packaging specialist. All "markings and labeling" of shipments shall conform to MIL- STD 129, DoD Standard Practice, Military Marking for Shipment and Storage (current revision) The Contractor shall affix a completed DD Form 1574, Serviceable Tag-Materiel or DD Form 1574-1, Serviceable Label-Materiel to each unit pack

or intermediate container and prime outer container(s). The tag or label will indicate the condition(s) of the materiel and identify the individual article or contents, bundle, container to which they are securely attached.

7.9.3 International Standards for Phytosanitary Measures (ISPM N0.15) Requirements

The Contractor shall use the wood packaging material regulation for international trade which describes phytosanitary (including treatments) that have been approved for wood packaging material and provides for the approval of new or revised treatments. Use the latest revision of (ISPM No. 15), and the following statement complies with the United Nations-implemented restrictions on wood packaging material (WPM). "This requirement is specifically concerned with invasive species such as pinewood nematode. WPM is defined as wood pallets, skids, load boards, pallet collars, wooden boxes, reels, dunnage, crates, frames, and cleats. The statement below cites the requirements in detail and covers lumber for building containers and pallets used for deliveries resulting in worldwide shipments (direct vendor deliveries, Air Logistics complex (ALC), Container Consolidation Points (CCP), Aerial Ports, Water Ports, or other DoD installations.

7.9.4 Electrostatic Material (When Applicable)

The Contractor shall apply provisions of MIL-STD-1686, (current revision) when identifying all solid state devices and modules containing diodes, translators, integrated circuits and/or other microelectronic components sensitive to electrostatic forces. All such items shall be packaged IAW ASTM D3951 using electrostatic free barrier materials and shall clearly bear **Electrostatic Sensitive Device** labels JAW MIL-STD 129, Department of Defense Standard Practice Military Marking for Shipment and Storage.

7.9.5 Palletized Unit Loads

The Contractor shall apply provisions and methods ofMIL-STD-147, current revision to contracts requiring the preparation and shipment of bonded palletized unit loads for DoD facilities Hazardous Materials (When Applicable).

The Contractor shall ensure Hazardous shipments comply with International Civil Aviation Organization (ICAO), U.S. Code of Federal Regulations (CFR) Title 49, International Air Transport Association (IATA) Dangerous Goods Regulation, International Maritime Dangerous Goods Code (IMDG, Annex 1), and AFMAN24-204_1P, Preparing Hazardous Materials for Military Air Shipments. Packaging shall meet "DOT specification or a United Nation (UN) specification " manufactured in accordance with 49 CFR, Part 178 and the final packages assembled JAW 49 CFR, Parts 100-185 as applicable. A Competent Authority Approval (CAA) shall be acquired from the responsible Associate Administrator or other designated Department official to perform a function requiring prior consent under the Hazardous Material Regulation (HMR). Packages(s) shall be marked JAW MIL-STD-129, DoD Standard Practice, and Military Marking for Shipment and Storage. The Contractor shall affix a completed DD Form 1574, Serviceable Tag-Materiel or DD Form 1574-1, Serviceable Label- Materiel to each unit pack or intermediate container and prime outer container(s). The tag or label will indicate the condition(s) of the materiel and to identify the individual article or contents, bundle, container to which they are securely attached. If a symbol is used to represent the manufacturer or the approval agency certifying compliance with 49 CFR 178, subparts L and M, the symbol must be registered with the U.S. Department of Transportation. A copy of the Contractor's Test Report

and signed certification that the package configuration meets both CFR and UN requirements shall be made available to the procuring contract office, as required, prior to acceptance or shipment of any portion of the product JAW Contract Data Requirements List (CDRL) (Reference AFMC Form 158). Safety Data Sheets (SDS) are required for known hazardous items and applicable items shown in FED- STD-313, Tables I and II. The SDS shall have any applicable identification number, such as National Stock Number or Special Item Number. A copy of the SDS shall be mailed or e-mailed no later than five (5) days prior to contractual delivery of items.

7.9.6 Reporting Discrepancies

The Contractor shall use Web Supply Discrepancy Report (WebSDR) to submit/reply to a Supply Discrepancy Report (SDR), when improperly packed assets are received/shipped in other than the contracted packaging requirements (coded data or Special Packaging Instructions (SPI) drawings) from Department of Defense (DoD) components/ or Contractor activities. The Contractor shall request a WebSDR account via the following URL: https://home.daas.dla.mil/ See Defense Logistics Management (DLM) 4000.25-M, Volume 2, Supply Standard and Procedures, Chapter 17, Supply Discrepancy Reporting.

7.9.7 Applicable Government Packaging Documents

- AFI 24-203, Preparation and Movement of Air Force Cargo
- AFMAN 24-204, Preparing Hazardous Materials for Military Air Shipments
- AFMCI 24-201, HQ AFMC Packaging and Materials Handling Policies and Procedures
- DLMS 4000.25, Defense Logistics Management Standards (DLMS), Volume 2, Supply Standards and Procedures, Chapter 17, Supply Discrepancy Reporting
- DoD 4140.01-M-1, Compliance for Defense Packaging: Phytosanitary Requirements for Wood Packaging Material (WPM)
- DOT Title 49, Code of Federal Regulations (49 CFR), Transportation
- International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air
- International Air Transport Association (IATA) Dangerous Goods Regulation
- International Maritime Dangerous Goods (IMDG) Code
- ISPM No. 15, International Standards for Phytosanitary Measures. Note: Marking Requirements can be found in the American standards committee, incorporated wood packaging material enforcement regulations dated November 7, 2014, and ISPM No. 15.
- MIL-STD-2073, Standard Practice for Military Packaging
- MIL-STD-129R, Department of Defense Standard Practice Military Marking for Shipment and Storage
- MIL-STD-147E, Palletized Unit Loads

Unless otherwise specified in the contract, packaging, packing, and palletization shall be in accordance with ASTM D3951, Standard Practice for Commercial Packaging, as specified for shipments to the DoD. Marking shall be in accordance with MIL-STD-129R, DoD Standard Practice, and Military Marking for Shipment and Storage. If new or revised commercial hardware components are suggested for introduction to the system, impacts to PHS&T will be evaluated and reported to the AF PM. ***CDRLA010 DI-MGMT-81797 Program Management Plan.***

7.9.8 Shipping/Transportation

The Contractor shall ensure compliance with cargo and customs provisions as mandated in DTR 4500.9-R, Defense Transportation Regulation and Foreign Clearance Guide (FCG) to prevent delays in shipments to and from OCONUS sites. If circumstances prevent commercial shipments (e.g., Fed Ex, etc.) to OCONUS sites, MILAIR shipping will be utilized.
The Contractor will be responsible to fund and coordinate shipping to and from the designated military Aerial Port of Embarkation (APOE). The PMO will fund and provide a Transportation Account Code (TAC) for MILAIR shipping. If funding for the TAC is delayed, Contractor will hold shipment until funds are available to prevent shipment being delayed or frustrated. Upon reaching end of operating Fiscal year, PMO will ensure TAC CODE funding is available prior to release of DD1149 REQUISITION AND INVOICE/SHIPPING DOCUMENT to Contractor for shipments.

For Other Contingency Operations (OCO), TRANSCOM will fund a Centrally Managed Account (CMA). Two TAC CODES will be established: one Commercial Ground and One for MILAIR to the designated APODs and return as described in the business rules established for the 1RANSCOM TAC CODE funds manager. The designated APOE will be provided by the Air Force to the Contractor. Prior to shipment, the Contractor will coordinate with the PMO for movement to include receiving DODAAC, SHIP TO, MARK FOR, ITEM DESCRIPTION (to include Length, Width, Height and Weight) for inclusion into the DD1149 REQUISITION AND INVOICE/SHIPPING DOCUMENT. For shipments requiring MILAIR the PMO will coordinate with the Contractor a DD1149 REQUISITION AND INVOICE/SHIPPING DOCUMENT upon delivery of equipment to DLA SERVICES. The contractor will provide all necessary documentation for acceptance of shipments in the Defense Transportation Network (DTN).
If the shipment is denied due to Contractor fault (lack of proper shipping documentation, lack of prior country authorization, disputes with official Government agencies, etc.), the Contractor shall report the incident in the Status Report and shall notify the AF PM and PCO within 48 hours by email or telephone notification. The Contractor shall track the status through resolution. ***CDRL A008 DI- MGMT-80368A Status Report***

7.9.9 Green Procurement Program (GPP)

GPP is a mandatory federal acquisition program that focuses on the purchase and use of environmentally preferable products and services. GPP requirements apply to all acquisitions using appropriated funds, including services, and new requirements. IAW FAR

23.404(b), the GPP requires 100% of EPA designated product purchases that are included in the Comprehensive Procurement Guidelines (CPG) list that contains recovered materials, unless the Contractor cannot acquire the item:

1. Competitively within a reasonable timeframe,
2. Meeting reasonable performance standards, or
3. At a reasonable price.

   The prime Contractor is responsible for ensuring that all subcontractors comply with this requirement.

8. SYSTEMS ENGINEERING

The Contractor shall perform systems engineering and integration tasks for the AN/TMQ-53. The prime Contractor shall have defined processes for managing work including standards, process descriptions, and work procedures. These processes shall clearly state the purpose, inputs, entry criteria, activities, roles, measures, verification steps, outputs, and exit criteria of work being performed. The Contractor shall ensure that these processes are well characterized, understood and described in standards, procedures, tools, and methods. The Contractor's set of standard processes shall be established and improved over time. The Contractor shall use these standard processes to establish consistency within the Contractor personnel team and shall execute all systems engineering and related program management tasks according to those guidelines, tailored by the Contractor specifically for this contract

8.1 MODIFICATION MANAGEMENT

The Contractor shall perform modification management for the AN/TMQ-53 program. The AN/TMQ-53 program may require system modifications which include potential change(s) to hardware and firmware components. These modifications can be a result of obsolescence or other factors. Costs associated with modification efforts due to obsolescence shall be the sole responsibility of the Contractor under the CLS Contract Line Item Number (CLIN). Costs associated with modifications unrelated to obsolescence will be negotiated and separately priced under the Special Projects CLIN.

The Contractor shall provide an Engineering Change Proposal (ECP) for any system modifications. If required, and as part of an ECP, the Contractor shall develop TCTOs with the Government's guidance in order to facilitate field modification of the system. The Contractor shall provide a schedule with the Government's guidance for a timely and well managed development and fielding of the potential system upgrades. After the schedule has been provided and approved by the Government, any changes shall require AF PM approval. The Contractor shall provide a Test Plan for all test events. The Test Plan shall describe the test process and procedures in phases up to the Final Test Report. The Contractor shall support/host test efforts at the Contractor's facilities and travel to CONUS test sites as the Government requires. The Contractor Test Plan may include a prototype or first article test (Factory Acceptance Test), AN/TMQ-53 integration test (Site Acceptance Test), DoD Global Information Grid (GIG) testing, and will require a Final System Functional Test by validation/verification.

The Contractor shall provide a Modification Test Plan which will, at a minimum, address a

Government review, revisions to plans/tests, validation/verification to technical orders/TCTOs, and require Government acceptance at each phase prior to a follow-on action or phase of the modification. The Contractor shall allow the Government the option of witnessing Contractor Final System Testing. The Contractor shall evaluate potential modifications/upgrades as outlined in Section 8.1.2.

The Contractor shall submit a final Test Report, including all test results to the Government and CCB chairperson. The Contractor shall provide all necessary updates to system security certification and accreditation documentation that arise due to the system design change, enhancement, or upgrade. The Contractor shall support Government testing by supplying all test articles necessary for a successful test. ***CDRL A004 DI-SESS-80639D Engineering Change Proposal; A018 DI- NDTI-80603A/T Test Procedure; A019 DI-NDTI-80809B Test Inspection/Report; A009 TM-86-01P/T Technical Order and Associated Supplemental Data; A024 DI-MGMT- 82001A/T D.O.D. Risk Management Framework (RMF) Package.***

8.1.1 Obsolescence Management

The Contractor shall manage issues that may result in parts obsolescence or supplier mortality for the AN/TMQ-53 and implement a proactive approach to mitigate obsolescence risks using predictive forecasting strategies, parts list screening to the piece parts level, parts list monitoring, matching parts to the environment across the vendor chain, methodologies for tracking reporting, and mitigating costly obsolescence solutions. In the context of DoD hardware and software, obsolescence refers to the state where a part, component, software version, capability, or system is either: 1) no longer available (the original manufacturer or supplier has discontinued production, support, or distribution. This can include raw materials, manufacturing processes, and the skilled labor required to produce the item.), 2) economically unviable to maintain (repair, sustainment, or continued operation becomes prohibitively expensive due to factors such as high cost of procuring remaining parts or developing workarounds, extensive and costly modifications to integrate with newer systems, or limited availability of qualified personnel to maintain or support the technology.), 3) technologically inferior (the item is significantly less effective, efficient, or secure compared to newer alternatives. This inferiority could manifest in areas like processing power, data storage capacity, network bandwidth, cybersecurity vulnerabilities, or incompatibility with evolving mission requirements.), 4) security vulnerable (the hardware poses an unacceptable security risk due to known vulnerabilities that can't be mitigated effectively. This is particularly critical for systems that handle sensitive information or control critical infrastructure.), or 5) lacking support (maintenance, upgrades, and security patches are no longer provided, leaving the system vulnerable to failures, exploits, and regulatory compliance issues.). The Contractor shall monitor and identify components that have the potential to become obsolete or difficult to support. The Contractor shall identify replacements, alternate sources, or solutions for obsolete components/systems and shall deliver an ECP for all proposed configuration changes.

If the AF engineer recommends approval of the ECP, the Government will convene a CCB to discuss and accept, modify, or reject the change. The coordination and concurrence of the CCB shall be required for all configuration changes and modification actions. Upon final CCB approval of a change or modification due to obsolescence, the Contractor shall procure and

integrate proposed components and distribute to the various sites based on defined priorities for availability. The Contractor shall provide all necessary TO updates that arise from the change or modification of the system due to the obsolescence (including requirements as listed in the TO section of this PWS). The Contractor shall provide all necessary updates to system security certification and accreditation documentation that arise from the change or modification to the system due to the obsolescence. ***CDRL A004 DI-SESS-80639D/T Engineering Change Proposal; A009 TM-86-01P/T Technical Order and Associated Supplemental Data.***

8.1.2 System Design Changes, Enhancements and Upgrades

Potential system design changes, enhancements and upgrades can originate by the Contractor or the Government. The Contractor shall submit an ECP IAW Special Projects CLIN to identify potential system design changes, enhancements or upgrades to the TMQ-53 systems to the AF PM for consideration. The coordination and concurrence of the CCB shall be required before the Contractor implements any changes, enhancements, or upgrades. Any design change, enhancement, or upgrade shall be compatible with other system components. The Contractor shall verify functionality of any potential design change, enhancement, or upgrade through testing. The Contractor shall also perform defense in depth security testing of any potential design change, enhancement, or upgrade, including but not limited to performing both manual and automated scans and report to the Government any findings. The Contractor shall ensure that the function, supportability, maintainability and performance of the TMQ-53 is not degraded by any approved changes. The Contractor shall properly annotate all related configuration reports with the approved changes (See section 8.3.1). The Contractor shall provide all necessary TO updates and develop TCTO procedures that arise due to the system design change, enhancement, or upgrade (including requirements as listed in the TO section of this PWS). ***CDRL A004 DI-SESS- 80639D/T Engineering Change Proposal; A009 TM-86-01P/T Technical Order and Associated Supplemental Data.***

8.1.3 Deficiency Reporting (DR) Process

The Contractor shall be a member of a joint Contractor and Government team which identifies, defines, and collects the data required for entry into the Joint Deficiency Reporting System (JDRS), or equivalent Government-approved system. The Contractor shall research the cause and present potential solutions for each DR. A DR can originate from a field unit, MAJCOM, PMO or a Government representative. The joint team will assume the responsibility for collecting and categorizing the types of deficiencies, issues, and problems that impact the program. The Contractor shall utilize its own internal DR tracking system, approved by an AF PM. The Government will have the final authority and responsibility for DR data collected by the team. The team shall also have the capacity to submit suggestions for program deficiency improvements to include technology insertion initiatives. The Contractor shall brief DRs at the PMRs and report status of open DRs in the Status Report. The Contractor shall resolve the DR with Government systems engineers IAW PWS Section **8.** ***CDRL A008 DI-MGMT-80368A Status Report.***

8.1.4 Ozone Depleting Substances (ODS)

The Contractor shall not introduce into nor use any Class I or Class II ODS in items provided for in this contract, unless specifically approved by the Government. If a new component potentially requires use of an ODS for mission critical requirements for which economically and technically feasible substitutes are not available, it will be evaluated by the Government and considered for approval.

8.2 RELIABILITY AND MAINTAINABILITY (R&M)

The Contractor shall provide reliability and maintainability data (such as spare parts usage) for the AN/TMQ-53 LRUs supported under this contract. The Contractor shall use data available via Program of Record (PoR), i.e. IMDS/ELMS or current trouble call tracking system, or similar data system provided or authorized by the Government. This includes tracking Operational Availability of the AN/TMQ-53, and Mean Time between Critical Failure (MTBCF) along with other reliability factors, such as Mean Time between Maintenance (MTBM) and Mean Time To Repair (MTTR). The Contractor shall perform an ongoing analysis and provide spares and repair recommendations in each Spare Parts Usage Report for the next 12 months preceding the current reporting month following the Spare Parts Usage Report. If the Government or the Contractor identifies new or revised hardware components for introduction to the AN/TMQ-53 system, the Contractor shall evaluate impacts to R&M and report those impacts immediately to the AF PM. ***CDRLA017 DI-ILSS-80483 Spare Parts Usage Report.***

8.2.1 Revised Maintenance Philosophies/Impacts

The Contractor shall scrutinize spare parts usage, user input, help desk data and/or other reliable R&M data as discussed in section 8.2 to determine if changes are required to the maintenance philosophies of the AN/TMQ-53 system. The Contractor shall make recommendations about LRU or component replacement in the form of an ECP. In addition, if the Government or the Contractor identifies new or revised hardware parts for introduction to the AN/TMQ-53 system, the Contractor shall examine resulting impacts to the maintenance philosophies and shall report impacts immediately to the AF PM. ***CDRL A008 DI-MGMT-80368A Status Report; CDRL A004 DI-SESS-80639D Engineering Change Proposal***

8.3 CONFIGURATION MANAGEMENT

8.3.1 Configuration Management Plan (CMP)

The Contractor shall establish and maintain a configuration management program and status accounting of the AN/TMQ-53 hardware and documentation for all items supported under this contract. The Contractor shall develop and update a CMP IAW the CDRL. The Contractor shall participate in CCB meetings, per section 8.3.2, and provide input on possible modifications, upgrades, and enhancements to the systems, along with the impacts to operations,

maintenance, and documentation (TOs, training, security, etc.). The coordination and concurrence of the CCB shall be required for all modification actions. The Government retains the right to dictate configuration of this system. The Contractor shall provide updates to the CMP upon changes to the configuration of the system, and at least annually. The Contractor shall incorporate the Configuration Parts List into the CMP and update to the approved configuration. The Government may request the updated Configuration Parts List as a stand-alone document at any time. ***CDRL A016 DI-SESS-80858C Supplier's Configuration Management Plan; CDRL A004 DI-SESS-80639D Engineering Change Proposal; CDRL A006 DI-SESS-80640D/T Request/or Variation; CDRL A005 DI-SESS-80642D Notice of Revisions.***

8.3.2 CCB Participation

The Contractor shall support CCB meetings unless not required by the Government. The Contractor shall participate, as directed by the AF PM (by teleconference, VTC, etc.). The Contractor shall participate in the CCB process as a technical advisor providing analysis of possible obsolescence, upgrades, and enhancements to the systems, along with the impacts to operations, maintenance, and documentation (TOs, network security, baseline configuration, hardware, etc.). The Contractor shall provide and update the CMP to ensure configuration control of the system hardware documentation IAW the Air Force baseline configuration of the AN/TMQ-53. ***CDRL A016 DI-SESS-80858C Supplier's Configuration Management Plan; CDRL A004 DI-SESS-80639D Engineering Change Proposal; CDRL A006 DI-SESS-80640D/T Request for Variation; CDRL A005 DI-SESS-80642D Notice of Revisions.***

8.3.3 Configuration Status Accounting Information (CSAI)

The Contractor shall maintain and deliver Configuration Status Accounting Information lists for each TMQ-53 system. The list will be broken down to the Contractor's anticipated depot lowest-level of repairing and replacing of equipment and include the OEM of each piece of equipment. If the Contractor modifies an OEM's equipment for use in the TMQ-53, the Contractor shall identify both the OEM and themselves. ***CDRLA007 DI-SESS-81253C/T Configuration Status Accounting Information.***

8.4 OBSOLESCENCE RISK MANAGEMENT AND DIMINISHING MANUFACTURING SOURCES AND MATERIEL SHORTAGES (DMSMS) PROGRAM

8.4.1 DMSMS Responsibilities

The Contractor is responsible for managing obsolescence and DMSMS over the entire period of the contract, and notwithstanding any obsolescence issues or problems, the Contractor remains responsible for meeting all performance and other requirements of this contract. This obsolescence management responsibility includes an ongoing review and identification of actual and potential obsolescence issues, including but not limited to obsolescence of items, assemblies, sub-assemblies, piece parts, and materiel (hereafter

referred to for purposes of this section only as "parts and/or materiel"). The Contractor is responsible for all costs associated with obtaining a replacement if and when any parts and/or materiel become obsolete. The costs for which the Contractor is responsible include, but are not limited to, the costs of investigating part availability, interchangeability and substitutability, locating part replacement, vendor interface, engineering efforts, testing requirements, internal drawing changes, etc. The Contractor shall prevent any additional costs from being incurred by the Government due to obsolescence. Any configuration changes due to obsolescence shall be submitted via ECP and approved by the CCB in accordance with the Configuration Management requirements of this PWS. Upon approval of the ECP the Government will purchase additional parts to reach Government recommended stock levels. The Contractor shall provide the Government with obsolescence status briefs, as part of the periodic program reviews provided for under the contract. The Contractor's obsolescence program shall prevent impact to contract performance metrics and shall prevent additional costs being incurred by the Government due to obsolescence.

Additional Obsolescence and DMSMS Responsibilities Required upon ECP Submission and Approval

Upon final CCB approval of a change or modification due to obsolescence, the Contractor shall procure and integrate proposed components and distribute to the various sites based on defined priorities for availability. The Contractor shall provide all necessary TO updates that arise from the change or modification of the system due to the obsolescence and provide final update for verification prior to fielding (including requirements as listed in the TO section of this PWS). The Contractor shall provide all necessary updates to system security certification and accreditation documentation that arise from any change or modification to the system due to the obsolescence IAW. ***CDRL A004 DI-SESS-80639D/T Engineering Change Proposal; A009 TM-86-01P Technical Order and Associated Supplemental Data; A024 DI-MGMT-82001A/T D.O.D. Risk Management Framework (RMF) Package.***

8.4.2 DMSMS Management Plan

The Contractor shall develop and submit an Obsolescence and DMSMS Management Plan for managing the loss, or impending loss, of manufacturers or suppliers of parts and/or material required for performance of this contract. This plan will also address DMSMS Management. The Contractor will participate in Government Industry Data Exchange Program (GIDEP) and the Obsolescence Plan shall include participation in GIDEP. ***CDRLA031 DI-MGMT-81948 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Plan***

8.4.3 Government Industry Data Exchange Program Alert/Safe-Alert Reports

Contractor shall submit all appropriate data requirements to the GIDEP as it is generated. The Contractor shall screen each Alert or Safe received from GIDEP to determine if the device or process for which the Alert is issued, is used in the manufacture of the unit and shall notify the PMO via an Obsolescence Alert Notice. ***CDRL A028 DI-QCIC-80125B GIDEP Alert/Safe-***

Alert Report; A029 Dl-QCIC-80126B GIDEP Alert/Safe-Alert Response.

8.4.4 DMSMS Surveillance

The Contractor shall work with suppliers to notify the Contractor of any pending or future actions to discontinue purchased parts, components or commodities as regular product lines; as well as any impact to availability of part, component, commodity repair parts and/or repair capabilities. The Contractor shall implement an alert system which involves contact with all the vendors to obtain all the information necessary to provide proactive DMSMS capabilities. ***CDRLA031 DI- MGMT-81948 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Plan.***

8.4.5 DMSMS Impact Assessment

When notifying the PMO of an Obsolescence or DMSMS impact, the Contractor shall utilize the Operations Impact Analysis (OIA) to prepare an impact assessment and provide it along with the proposed resolution to the PMO. The Contractor shall utilize the SD-22 DMSMS guidebook to assist in preparation. This impact assessment shall state whether the issue is an actual or potential problem and estimate how and when the issue will impact the AN/TMQ-53 and its support equipment. The impact assessment shall include a proposed resolution(s) response. The proposed response shall include at least one of the following methods as defined in the approved DMSMS Management Plan: substitution, alternate source, redesign, lifetime buy, and reclamation. ***CDRL A031 DI-MGMT-81948 Diminishing Manufacturing Sources and Materiel Shortages (DMSMS) Management Plan.***

8.4.5.1 DMSMS Impact Assessment Business Case Analysis

If an impact assessment reveals that further action(s) are required to resolve a DMSMS issue and creates a NMCS impact, the Contractor shall prepare and present a thorough and complete Business Case Analysis (BCA) to determine the immediate and long range impacts to the AN/TMQ-53 and its support equipment based on subject part(s)/component(s) usage, availability, reparability, and other criteria required to accurately predict and report DMSMS cost, schedule, and performance impact(s). The BCA shall include DMSMS resolution options and a recommendation as well as a Rough Order of Magnitude (ROM) cost for Non-Recurring Engineering (NRE) Development, component procurement cost, retrofit costs if applicable, and life cycle cost impacts. The Contractor shall utilize the SD-22 DMSMS guidebook to assist in preparation. The Contractor shall provide all necessary data required to support a Government conducted BCA audit, as required by the Government. The Contractor shall update the BCA semi-annually to ensure that projected DMSMS impact(s) and resolution options are current. BCAs shall be presented at the subsequent DMSMS Working Groups following submission to the USG. ***CDRLA031 DI MGMT-81948 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Plan.***

9. FIRMWARE MAINTENANCE AND CYBERSECURITY

9.1 COMPUTER RESOURCE SUPPORT

The Contractor shall be responsible for updating, maintaining, modifying, integrating and managing the configuration of firmware.-The Contractor shall employ person(s) who hold the applicable DoD approved IA baseline certification IAW DoD Directive 8140.01, once implemented to perform system security duties and system administration responsibilities. The Contractor shall certify that the appropriate Contractor personnel are certified with the Information Assurance Technical (IAT) Level I and 1AM Level I categories, at a minimum, IAW DoD 8140.01, to include security-related tools/devices. The Contractor shall provide evidence of a program to be in compliance with NIST 800-171 in accordance with DFARS Subpart 204.7 and negotiate a teaming agreement with the OEM. The contractor shall present these certifications upon request by the AF PM.

9.2 SECURITY ASSESSMENT AND APPROVAL

The Contractor shall ensure that the TMQ-53 systems are managed IAW the Department of Defense Risk Management Framework (RMF). The Contractor shall assist the Government with all processes and artifacts required to obtain an Air Force Authority to Operate (ATO)/Authority to Connect (ATC), Assess Only, Army ATO, and Army ATC to include theater unique requirements by preparing required documentation and artifacts IAW applicable system security Assessment and Approval processes and AF ISSM or Authorizing Official (AO) guidance. The Contractor shall examine and analyze the security safeguards of the hardware components every 30 days to ensure that appropriate security measures are implemented for each applicable environment so the TMQ-53 satisfies the system security requirements of the below:

- DoDI 8510.01
- DoDI 8500.01
- AFI 17-101
- NIST SP 800-37
- NIST SP 800-137
- NIST SP 800-30
- NIST SP 800-39
- NIST SP 800-53A (Current Rev)
- NIST SP 800-90
- CNSSI 1253
- CNSSI4009
- CNSSP No. 11
- CNSSP No. 22

The Contractor shall maintain cognizance of the above-mentioned requirements and TMQ-53 security process to follow any updates to the DoD RMF Process and requirements from the AirForce Weather Authorizing Official. ***A024 DI-MGMT-82001A/T D.O.D. Risk Management Framework (RMF) Package.***

9.2.1 Assessment and Approval Documentation

The Contractor shall prepare and update a comprehensive system security package as required for reaccreditation. A comprehensive package shall include the following documents: Information Technology Determination and Categorization (ITDC), Audit and Accountability (AU) Plan, Awareness and Training (AT) Plan, Configuration Management (CM) Plan, Contingency (CP) Plan, Identification and Authentication (IA) Plan, Incident Response (IR) Plan, Information System Maintenance (MA) Plan, Media Protection (MP) Plan, Personnel Security (PS) Plan, Physical and Environmental Protection (PE) Plan, Risk Assessment (RA) Plan, Access Control (AC) Plan, System and Communications Protection (SC) Plan, System and Information Integrity (SI) Plan. All A&A documentation templates will be provided by the AF PM or AF ISSM to the Contractor. The Contractor will build topology diagrams to the DISA standard. The Contractor will provide a Ports, Protocols and Services (PPS) table in the approved DoD format. The Contractor will ensure that all proposed PPS entries are included in the DISA Category Assurance List (CAL) and support the DoD PPSM process for approvals. The Contractor shall create or update all artifacts necessary IAW the A&A process. The Government will review and approve each document incorporated into the package. ***A024 DI-MGMT-82001.A/T D.O.D. Risk Management Framework (RMF) Package.***

9.2.2 Electronic Mission Assurance Support System (eMASS) Database

The Contractor shall assist the AF PM, Information System Security Officer (ISSO), and ISSM with government eMASS database entries. This includes answering applicable security Controls, uploading supporting artifacts and summaries of test results. If the Government implements another system equivalent to eMASS, the Contractor shall retain the same responsibility for the new database. The Contractor will develop, update and review artifacts provided to the government on a quarterly basis and provide updates as required. ***A024 DI-MGMT-82001A/T D.O.D. Risk Management Framework (RMF) Package.***

9.2.3 Sustainment of Security Documentation

The Contractor shall assess the impact to the security architecture as new modifications/components are added, when directed by network order or on a quarterly basis (at a minimum). If changes impact the posture of the security support structure and re-accreditation is required, the Contractor shall prepare updated security artifacts. The Contractor shall submit to and invoice the Government only for those subcomponents of the RMF package which must be updated. ***A024DI-MGMT-82001A/T D.O.D. Risk Management Framework (RMF) Package.***

9.3 PROGRAM PROTECTION

9.3.1 Supply Chain Risk Management (SCRM)/Counterfeit Prevention

The Contractor shall develop a plan IAW the current version of CNSSD No. 505 and NIST SP 800- 161 to mitigate supply chain risks to the system's critical components, the failure of which would result in either catastrophic or critical compromise of mission capability, or in significant mission degradation. This plan shall be documented in the Contractor's Quality Assurance

Plan. The Contractor shall ensure critical components procured through vendors, suppliers and subcontractors are free of counterfeit elements or malicious functions.

10. TECHNICAL ORDER

The Contractor shall maintain and update the existing AN/TMQ-53 TO as directed by the AF PM and IAW the process as defined in TO 00-5-3 *AF Technical Order Lifecycle Management, and CDRL A009 with attachment, TM 86-01.* The Contractor shall be responsible for providing adequate, safe and accurate TOs which conform to Government requirements. The Contractor shall be responsible to ensure TOs and data are written to a scope and depth of coverage sufficient to support the operations and maintenance concepts and to the Reading Grade Level (RGL) specified in MIL- PRF-32216A, Evaluation of COTS Manuals and preparation of Supplemental Data. As part of the Post-Award Conference the Government shall ensure mutual understanding of TO contract requirements, schedules, points of contact, and any other pertinent TO requirements. The Program Office has full responsibility for TO management oversight, including the validation of the TOs and TCTOs. The Government or the Contractor can identify the need for corrections, changes, revisions, or supplements. Contractors shall maintain TOs by preparing emergency, urgent, and routine changes/revisions or supplements and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes IAW TO 00-5-3. The Contractor shall accomplish corrections to the TO until the Program Office validates, approves, and accepts the final TO. ***CDRLA009 TM-86-01P Technical Order and Associated Supplemental Data.***

10.1 CONTENT

The level of detail shall be commensurate to the level necessary for field maintenance; therefore depot level overhaul/repair instructions are not necessary. The Contractor shall provide all source files as requested by the AF PM. One page is authorized for denoting the Prepared by Contractor name and address. TOs must include all information necessary for operation, maintenance and servicing (preventive and corrective), preparation for use and installation, or training purposes.

To ensure clarity and reduce maintainer workload, all recurring or periodic maintenance tasks shall be documented using standardized terminology. Specifically, the TOs shall contain a dedicated section for Preventative Maintenance Instructions (PMIs), which will be indexed and easily searchable. Vague or inconsistent terms for inspections (e.g., "28 day," "quarterly") shall be replaced by a formal PMI structure. These PMIs shall be suitable for the development of Work Card (-6WC) TOs, providing clear, sequential steps for all scheduled maintenance.

TOs shall always include: Principles of Operation, operating and maintenance instructions (hardware), maintenance illustrations (schematic wiring diagram(s) and Illustrated Parts Breakdown). The TO shall include OEM part numbers and OEM CAGE Code as reflected in the current system configurations. If an OEM part is modified by the CLS Contractor, the part number shall reflect the OEM part number, include a dash, then the letter M (for modified) and correlating modification number (For Example: OEM Part Number XYQ-M1 (for first

modification), XYQ-M2 (for second modification).

10.2 DATA RIGHTS

The Government shall receive unlimited/unrestricted rights for all deliverables and updates provided under this contract. The Contractor shall not include any restricted markings in any TO deliverables and updates. The Contractor shall identify data generated under this contract that is not deliverable via the CDRL on a Data Accession List (DAL). ***CDRL A015 DI-MGMT- 81453B Data Accession List.***

10.3 TECHNICAL MANUAL FOR QUALITY ASSURANCE PROGRAM (TMQAP)

The Contractor shall provide a Technical Manual Quality Assurance Program (TMQAP) Plan which ensures TOs are prepared and sustained IAW the TM-86-0lN. The Contractor shall address TOs formally and provide the TMQAP plan at each PMR, Pre-Publication Review (PPR), In Process Review (IPR), TIM, and all other Government functions as required by the PMO. ***CDRL A009 TM-86-01P Technical Order and Associated Supplemental Data***

10.4 TO REVIEWS

The Contractor shall participate in periodic reviews to allow insight by the Government into TO sustainment processes and ensure contract compliance. The Contractor shall participate in verifications, periodic PPRs, IPRs, TIMs, and all other Government functions as needed. The Contractor shall provide status of TO sustainment or bi-annual updates and distribution status, recommended actions, and timeline for completion and distribution. The Program Office or the Contractor may request informal teleconferences to discuss TO issues. ***CDRLA009 TM-86-01P Technical Order and Associated Supplemental Data.***

10.5 CONTRACTOR CERTIFICATION VALIDATION PROCESS

The Contractor is responsible for the TO development process; that is, for delivering adequate, safe, current and accurate TOs which conform to Government requirements. The data shall be fully compatible in depth and scope with the established maintenance concept and the approved logistics support plan. The data shall be checked for security classification, distribution restrictions, and RGL. The Contractor shall ensure the TOs are certified. Only support equipment listed in the TO shall be used in testing procedures. The Contractor shall get permission and consult with the Government Equipment Specialist (ES), PM and Technical Order Management Agency (TOMA) if any substitution of support equipment is required. The Contractor shall identify and request any Government furnished equipment (GFE) required to support the TO development effort. Locally fabricated tools or test equipment listed in the TO shall be used during testing. Procedures for fabricating these items shall also be listed in the TO. Tasks shall normally be performed at the Contractor facility during system or commodity development testing. If required GFE is not available, tasks may be performed at an operational or test site when approved by the procurement/

sustainment managing activity. The Contractor shall coordinate requirements with any affected agencies.

When the Contractor cannot perform some tasks due to non-availability of GFE resources, the ES/PM/TOMA shall be notified. The ES/PM/TOMA may provide the required resources (if available) to the Contractor or suggest use of a field location. In some cases, combining Contractor certification with AF verification may be authorized. As a last resort, the TOMA may authorize use of simulation or desktop analysis of the procedures. Task performance or simulation may be unnecessary for existing manuals and source data that is applicable to the current configuration of the equipment, if a desktop analysis or publication review proves the manuals are current, adequate, accurate, and conform to contract requirements.

The Contractor shall provide certification/verification that the TO procedures are accurate, adequate, current, safe, and usable for their intended purposes. Certification/verification methods shall include actual performance of procedures and use of desktop analysis for non-procedural data. Simulation (walk-through/talk-through) should be reserved for those procedures which would present a hazard to personnel or equipment. The Contractor shall use the Government furnished mock-up to perform certification/validation tasks or if necessary, with the permission of the PM perform certification/validation tasks at a nearby base. ***CDRL A009 TM-86-01P Technical Order and Associated Supplemental Data.***

10.6 GOVERNMENT VERIFICATION

Verification is the formal process by which Air Force personnel evaluate and prove that TOs and TO updates accomplished during acquisition and sustainment are accurate, adequate, safe, and usable in the operational environment, in order to support the program. Current Air Force policy requires that all tasks in TOs and TO updates be 100 percent verified, and that all new and updated technical data will be verified unless waived by the PM IAW AFI 63-101. This includes data that has been formalized and is in the sustainment phase of the TO life cycle. The Contractor shall provide an on-site technical writer and engineer as needed, for all Government verifications.

The Contractor shall provide the personnel required to support Government TO verification at a CONUS site. This support should consist of at least one technician (who will manage and make required changes to the TO). ***CDRL A009 TM-86-01P Technical Order and Associated Supplemental Data.***

10.7 TECHNICAL ORDER UPDATES

The Contractor shall provide ongoing sustainment of the Tos as directed by the AF PM and per the TM-86-01N. The Contractor shall incorporate changes when required, which include corrections, equipment configuration changes, and maintenance or operational concept changes. Updates include but are not limited to safety related cautions and warnings, troubleshooting, maintenance, operating instructions, schematics and/or wiring diagrams, IPBs, etc. Although TO management oversight is the responsibility of the Program Office, changes and corrections to the TOs are the responsibility of the Contractor and shall always be coordinated with the Program Office for review, validation/verification, and final approval and acceptance. The Contractor shall process all Air Force Technical Orders

(AFTO) 252s and AFTO 22s within the timeline specified in the 00-5-3. ***CDRL A009 TM-86-01P Technical Order and Associated Supplemental Data.***

10.8 DELIVERY OF TECHNICAL ORDERS

The Contractor shall deliver TOs and TCTOs IAW the TM-86-01. ***CDRLA009 TM-86-01P Technical Order and Associated Supplemental Data***

10.9 TCTOs

The Contractor shall develop AF TCTOs and related updates when required IAW TO 00-5-15 for TCTO development and under the guidance of the AF Technical Content Manager and TO Manager (Equipment Specialist and TOMA). When needed, the Contractor shall also provide personnel for TCTO kit proof and verification at a CONUS site. A low complexity TCTO may not require Contractor presence, while a higher complexity TCTO may require an engineer on- call to assist users in accomplishing the TCTO. The Government will determine the complexity of the TCTO. The Contractor shall accomplish TCTO compliance status tracking through Program of Record (PoR), i.e. IMDS/ELMS, current trouble call tracking system, or equivalent system. ***CDRLA009 TM-86-01P Technical Order and Associated Supplemental Data.***

APPENDIX A: APPLICABLE PUBLICATIONS

All sections of the publications listed in Table A-1 are applicable.

Table A-1: DoD Publications

Publication Number	Title of Publication
AFI 21-103 ACCSUP Attachment 15	Equipment Inventory, Status and Utilization Reporting
AFI 33-112	Information Technology Hardware Asset Management
AF Policy Directive (AFPD) 17-1	Information Dominance Governance and Management
DoD Instruction (DoDI) 8500.01	Cybersecurity
DoDI 8510.01	Risk Management Framework (RMF) for DoD Information Technology (IT)
DoD Directive 8140.01	Cyberspace Workforce Management
MIL-PRF-32216A	Evaluation of Commercial Off-The-Shelf (COTS) Manuals and Preparation of Supplemental Data
MIL-STD-130N	Identification Marking of U.S. Military Property
MIL-STD-38784A	Standard Practice for Manuals, Technical: General Style and Format Requirements
MIL-HDBK-61A	Configuration Management Guidance
AFI 17-101	Risk Management Framework (RMF) for Air Force Information Technology (IT)
AFI 63-131	Modification Management
TO00-5-3	AF Technical Order Lifecycle Management
TO 00-5-15	Air Force Time Compliance Technical Order Process
TO 00-25-195	Source, Maintenance, and Recoverability Coding of Air Force Weapons, Systems, and Equipment
TO 00-35D-54 (for PQDRs)	USAF Deficiency Reporting, Investigation, and Resolution

A.1 APPLICABLE DOCUMENTS

The Contractor shall obtain the forms and publications expressly required to perform the work in this contract via internet at: www.e-publishing.af.mil or www.esd.whs.mil/DD/. In the event that a form or publication is not available online, AF PM or PCO will provide the form, instruction, or publication to the Contractor upon written request (e-mail is acceptable). In the event that laws, regulations, Technical Orders, Air Force Instructions, and/or Air Force Materiel Command Instructions change during the term of this contract, the Contractor is required to comply as such changes come into effect.

APPENDIX B: ACRONYMS AND ABBREVIATIONS

Table B-2: Acronyms and Abbreviations

Acronym	Definition
A&A	Assessment and Authorization
ACO	Administrative Contracting Officer
AF	Air Force
AFB	Air Force Base
AFI	Air Force Instruction
AFLCMC	Air Force (AF) Life Cycle Management Center
AFTO	Air Force Technical Order
AFWWS	Air Force Weather Weapon System
ANSI	American National Standards Institute
Ao	Operational Availability
APOE	Aerial Ports of Embarkation
ARS	Action Request System
ATC	Authority to Connect
ATO	Authority to Operate
BCA	Business Case Analysis
C&A	Certification and Accreditation
CAC	Common Access Card
CAT	Category
CCB	Configuration Control Board
CORL	Contract Data Requirements List
CL	Confidentiality Level
CUN	Contract Line Item Number
CLS	Contractor Logistics Support
CMMI	Capability Maturity Model Integration
CMP	Configuration Management Plan
CMRA	Contractor Manpower Reporting Application
CoN	Certificate of Net-worthiness
CONUS	Continental United States
COR	Contracting Officer's Representative
CPAR	Contractor Performance Assessment Report
CSAI	Configuration Status Accounting Information
CUI	Controlled Unclassified Information
DCS	Defense Collaboration Services
DID	Data Item Description
DIP	DIACAP Implementation Plan
DISA-FSO	Defense Information Systems Agency Field Security Operations

Acronym	Definition
DMSMS	Diminishing Manufacturing Sources and Materiel Shortages
DoD	Department of Defense
DoDI	Department of Defense Instruction
DoDM	Department of Defense Manual
DR	Deficiency Report
ECP	Engineering Change Proposal
eMASS	Electronic Mission Assurance Support System
ES	Equipment Specialist
FAR	Federal Acquisition Regulation
FMC	Fully Mission Capable
FOUO	For Official Use Only
FY	Fiscal Year
GFE	Government Furnished Equipment
GFM-A	Government Furnished Material-Accountability
GFP	Government Furnished Property
GIDEP	Government Industry Data Exchange Program
GIG	Global Information Grid
GPP	Green Procurement Program
HBSS	Host Based Security System
HIPS	Host Intrusion Prevention System
HQ	Headquarters
IA	Information Assurance
IAVA	Information Assurance Vulnerability Alert
IAVB	Information Assurance Vulnerability Bulletin
1AM	Information Assurance Manager
IAW	In Accordance With
ICP	Inventory Control Point
ILSWG	Integrated Logistics Support Working Group
IMS	Integrated Master Schedule
IPT	Integrated Product Team
ISO	International Organization for Standardization
ITEC	Information Technology Equipment Custodian
IUID	Item Unique Identification
JDRS	Joint Deficiency Reporting System
JET	Joint Environmental Toolkit
LRU	Line Replaceable Unit
MC	Mission Capable
MILAIR	Military Airlift
MIL-STD	Military Standard
MTBF	Mean Time Between Failure
MTBM	Mean Time Between Maintenance

Acronym	Definition
MTTRF	Mean Time To Repair Function
NMC	Non-Mission Capable
NRE	Non-Recurring Engineering Development
oco	Overseas Contingency Operations
OCONUS	Outside the Continental United States
OEM	Original Equipment Manufacturer
OIA	Operations Impact Analysis
OPSEC	Operations Security
OSHA	Occupational Safety and Health Act
OSS&E	Operational, Safety, Suitability, and Effectiveness
PCO	Procuring Contracting Officer
PM	Program Manager
PMC	Partially Mission Capable
PMS	Property Management System
PPS	Ports, Protocols and Services
PQDR	Product Quality Deficiency Reporting
PWS	Performance Work Statement
QA	Quality Assurance
QAPP	Quality Assurance Program Plan
QMS	Quality Management System
R&M	Reliability and Maintainability
RGL	Reading Grade Level
RMF	Risk Management Framework
ROM	Rough Order of Magnitude
SATCOM	Satellite Communications
SDC	Standard Desktop Configuration
SIP	System Identification Profile
SPI	Special Packaging Instructions
SSD	Sensor Specification Document
SSPP	System Safety Program Plan
STIG	Security Technical Implementation Guide
TAC	Transportation Account Code
TCNO	Time Compliance Network Order
TCTO	Time Compliance Technical Order
TIM	Technical Interchange Meeting
TO	Technical Order
TOMA	Technical Order Management Agency
USAF	United States Air Force
VTC	Video Teleconferencing
WPM	Wood Packaging Material

APPENDIX C: LIST OF FEDERAL HOLIDAYS OBSERVED

The following Federal Legal Holidays are observed by this base:

- New Year's Day*, 1 January
- Martin Luther King's Birthday, Third Monday in January
- Presidents' Day, Third Monday in February
- Memorial Day, Last Monday in May
- Juneteenth Day, 19 June
- Independence Day*, 4 July
- Labor Day, First Monday in September
- Columbus Day, Second Monday in October
- Veteran's Day*, 11 November
- Thanksgiving Day, Fourth Thursday in November
- Christmas Day*, 25 December

*If the holiday falls on a Saturday, it is observed the previous Friday. If it falls on a Sunday, it is observed the following Monday.

APPENDIX D: INDUSTRIAL SAFETY AND HEALTH REQUIREMENTS

PART I

INSTRUCTIONS

The Contractor shall develop a site-specific Safety and Health Plan which shall address in detail how compliance with each applicable requirement in Part II through Part IV will be ensured.

Repeating the referenced standard without addressing the company's specific processes or procedures will not suffice. If task specific procedures are incorporated into a company local document, those procedures must be attached to the submitted Safety and Health Plan.

Referring to the company's local procedure/document in the Safety and Health Plan is not adequate. If the company's local procedure/document is not attached; the submitted Safety Plan will be returned NOT ACCEPTED.

PART II

1. ENVIRONMENTAL, SAFETY, AND OCCUPATIONAL HEALTH (ESOH): The Contractor is solely responsible for compliance with all federal, state and local laws, the Occupational Safety and Health Act (OSHA) (Public Law 91-596) and the resulting standards, OSHA Standards 29 CFR 1910 and 1926, as applicable, for the protection of their employees. Additionally, the Contractor is responsible for ensuring all subcontractors have appropriate safety and health plans for the protection of their employees.
2. CONTRACTOR EMPLOYEES: Compliance with OSHA and other applicable laws and regulations for the protection of Contractor employees is exclusively the obligation of the Contractor. Note: Air Force Instruction 91-203 may be referenced because many of the Air Force Standards exceed the OSHA standard criteria. If a conflict is noted, the most stringent requirement takes precedence. The Government shall assume no liability or responsibility for the Contractor's compliance or non-compliance with such requirements. The Contractor shall furnish to each of his/her employees a place of employment, which is free from recognized hazards. The Contractor shall brief his/her employees on the safety requirements of this contract and on potential hazards associated with prescribed tasks. The Contractor is responsible for compliance with OSHA Public Law and the resultant standards identified within. In addition, the Contractor is required to flow down the safety requirements/specification to all subcontractors. [This applies to Federal Acquisition Regulation (FAR) 12 commercial acquisitions as well.] This contract shall not require persons to work in surroundings or under working conditions which are unsafe or dangerous to their health. The Contractor must coordinate and perform work so as to not impact the health and safety of Government employees or cause damage to Government property. This requires providing personnel with protective equipment and associated safety equipment as necessary. The Contractor must also protect personnel from hazards generated by the work. If the Contractor employs non-English speaking employees, they must post bilingual signs and have written procedures for specific tasks in applicable languages.
3. INSPECTIONS: Air Force Environmental, Safety, Occupational Health and Fire protection officials and responsible Contracting Officer Representatives (COR) may

periodically enter a contractor's workplace to verify working conditions of personnel. If Air Force or Contractor employees observe improper procedures or unsafe conditions that exist, which place Air Force personnel, Government furnished property, or equipment/facilities in jeopardy, a process must be in place whereby these employees can notify the Contracting Officer and the installation Safety Office, and the Contractor will remove personnel and/or equipment from the unsafe condition immediately. Department of Labor (DOL) OSHA inspectors are authorized right-of-entry to inspect any place of employment operated by an Air Force Contractor. They are, for the most part, "NO NOTICE" inspections. Note: Notify the Center/Installation/Wing Safety Office at (781-225-5584) if an OSHA inspector visits your site unescorted by an Air Force Safety person. Noncompliance with safety requirements can result in work stoppage, long delays, and/or costly fines issued by the DOL. The Government shall assume no liability or responsibility for the Contractor's compliance or non-compliance with such requirements. Fines and additional costs for violations levied against the Contractor as a result of OSHA findings, and/or installation safety, fire, health or environmental findings are the sole responsibility of the Contractor and shall not be passed through to the Government.

4. **MISHAP NOTIFICATION:** The Contractor shall notify the AF PM and Center/Installation/Wing Safety Office telephonically (781-225-5584), within one (1) hour after initial notification of all mishaps or incidents for damage to DoD property (material plus labor) entrusted by this contract and injuries to Government or Contractor employees as a result of the contract operation. The Contractor shall provide copies of Contractor data related to mishaps, such as Contractor analyses, test reports, summaries of investigations, etc. as necessary to support the Government investigation and the Contractor shall support and comply with the safety investigation and reporting requirements of AFI 91-204 to include providing results of drug or alcohol tests. A follow-up (written or e-mail) of this mishap/incident notification shall be sent within three calendar days to the Procurement Contracting Officer (PCO), ACO and the Procurement Safety Office. The information that is not available at the time of the initial notification shall be provided within 20 calendar days after the mishap (CDRL A016). Mishap notification shall contain, as a minimum, the following information:

    a. Contract, Contract Number, Name and Title of Person(s) Reporting
    b. Date, Time and exact location of mishap/incident
    c. Brief Narrative of mishap/incident (Events leading to mishap/incident)
    d. Cause of mishap/incident, if known
    e. Estimated cost of mishap/incident (material and labor to repair/replace)
    f. Impound Authority Name and Phone Number (as applicable, see Paragraph 5)
    g. Nomenclature of equipment and personnel involved in mishap/incident
    h. Corrective actions (taken or proposed)
    1. Other pertinent information

Note: If requested by Government Personnel (PCO/ACO), the Contractor shall immediately secure the mishap scene/damaged property and impound pertinent maintenance and training records, until released by the investigating safety office. If the Government

investigates the mishap, the Contractor and the subcontractors shall cooperate fully and assist the Government personnel until the investigation is finalized and closed out.

- **CLASS A** mishap is: A fatality or property damage in excess of 2 million dollars
- **CLASS B** mishap is: An injury resulting in permanent or partial disability or property damage in excess of 500,000 dollars up to 1,999,999 dollars
- **CLASS C** mishap is: An injury or occupational illness resulting in lost workdays or property damage in excess of 50,000 dollars up to 499,999 dollars.
- **CLASS D** mishap is: An injury or occupational illness resulting in restricted days, transfer days, or property damage resulting in 49,999 dollars or less.

The numbers associated with Classes A, B, C, and D are subject to change.

2. **IMPOUNDMENT PROCEDURES:** The Contractor shall establish written impoundment procedures as part of their Safety and Health Plan. Impound data must be included in the mishap notification as applicable. As a minimum, the procedures must address:

   a. Appointment of Impound Authority in writing (copy emailed/faxed to COR and Safety Office)

   b. Impound Authority e-mail address and phone numbers

   c. Specific instructions (cordon facility, locked facility, etc.) to secure the site or Government asset, to prevent tampering with the aircraft, site or Government assets

   d. Specific instructions or measures to ensure only authorized personnel directly involved in management, safety, troubleshooting, or repair of equipment gain access to the impound site

   e. Additional guidance is located within AFI 21-101, Aircraft and Equipment Maintenance Management, AFMC Supplement 1

3. **CONTRACTOR SAFETY AND HEALTH PROGRAM:** The Contractor shall establish and maintain an acceptable safety and health program.

Contractor Safety and Health Manager. As part of the Contractor Safety and Health Program, the Contractor shall assign in their plan, by name and phone number, a person who will be the primary point of contact for safety and health issues for the on-site operation.

a. **Contractor's Safety and Health Plan.** Contractor shall prepare a safety and health plan IAW **this Appendix C and CORL A015;** incorporating the listed elements above, and the items in **PART III of this Appendix,** prior to award. The Contractor shall ensure that each element identified below is adequately addressed in detail in the safety and health plan. The plan must be accepted by the

Government prior to work commencing and will be incorporated into the awarded contract. Should a master safety and health plan remain on file with the Center/Installation/Wing Safety Office, the Contractor must ensure that it is current, updated, and includes all elements below. An addendum to the plan must include the processes noted below:

1) **Changes to the Plan.** If, during the performance of this contract, changes to the Contractor's Safety and Health Plan are required, the Contractor shall submit a revised Safety and Health Plan to the following PCO and COR. The same process of review and negotiation (if applicable) involved in the original submission applies to any revision submitted after contract award. The accepted revised Safety and HealthPlan shall then be incorporated by contract modification as an attachment or by reference.
2) **Tracking Rates.** The Contractor's Safety and Health Plan shall describe the processes and procedures to be used to track their compliance with their Safety and Health Plan and how they will correct any deviations from the plan, when and if identified.

PART III

The following items are required elements for performance of this contract. The Contractor's safety and health plan shall address how compliance with these requirements will be ensured. The safety plan shall clearly define company procedures on specific tasks/processes, personnel qualifications, how facilities comply with fire requirements to include the electrical wiring and fire protection systems installed (i.e., fire suppression, fire detection, fire extinguishers, firewall ratings, etc.), required equipment used to accomplish tasks and other necessary requirements for the protection of Government personnel and property. The Contractor's safety and health plan shall meet but may exceed the referenced standards.

Note regarding Motor Vehicles: Installation Commanders of all DOD installations in the United States and over which the United States has exclusive or concurrent legislative jurisdiction are delegated the authority to establish additional vehicular and pedestrian traffic rules and regulations for their installations. All people on a military installation shall comply with locally established vehicular and pedestrian traffic rules and regulations. JAW DoD Directive 5525.4, paragraph 3-4: *A person found guilty of violating, on a military installation, any State vehicular or pedestrian traffic law or local installation vehicular or pedestrian traffic rule or regulation made applicable to the installation under the provisions of this Directive is subject to a fine of not more than $50 or imprisonment for not more than 30 days, or both, for each violation (40 USC 318c (reference (d)).*

1. **Labor and respective state occupational safety and health regulations/laws:** The Contractor's safety assurance program shall comply with requirements found in: DoD Instruction *9055.I,DoD Occupational Safety and Health Program and DoDI* 9055.6, *DoD Fire and Emergency Services Program* as applicable.

2. **Fire Protection for Facilities:** Contractor's procedures shall comply with NFPA 10, *Portable Fire Extinguishers,* 2018 Edition; NFPA 13, *Installation of Sprinkler Systems,* 2019 Edition; NFPA 33, *Spray Application Using Flammable or Combustible Materials,* 2018 Edition; NFPA 70, *National Electrical Code,* 2020 Edition; NFPA 72, *National Fire Alarm Code,* 2019 Edition; NFPA 91, *Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids,* 2015 Edition.
3. **Explosives Mishap Prevention and Responsibilities:** Contractor will comply with AFMAN 91-201, *Explosives Safety Standards,* and with DoD 4145.26-M, *DoD Contractors' Safety Manual for Ammunition and Explosives.*

PART IV

References

http://www.osha.gov/ - OSHA Regulations http://www.esd.whs.mil/DD/ -DoD Directives and Instructionhttp://www.e-publishing.af.mil/ - AF Instructions

https://www.nfpa.org/Codes-and-Standards/All-Codes-and-Standards/List-of-Codes-and-Standards - NFPA Standards