GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS)

Performance Work Statement (PWS)

Contract # FA2517-15-C-8001

Supporting Sensor Detachments (Dets) at:
Socorro, New Mexico (Det 1)
Diego Garcia, British Indian Ocean Territory (Det 2)
Maui, Hawaii (Det 3)

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CHAPTER 1 GEODSS OVERVIEW

- 1.0. MISSION. The GEODSS Program is comprised of three Detachments (Dets) at geographically-separated locations at Socorro, New Mexico (Det 1); Diego Garcia, British Indian Ocean Territory (BIOT) (Det 2); and Maui, Hawaii (Det 3). Each Det operates with three optical telescopes (referred to as optical sensors throughout the PWS). The 21st Operations Group (21 OG), Peterson Air Force Base (AFB), Colorado, exercises responsibility for all GEODSS Dets through the Functional Commander at 20th Space Control Squadron (20 SPCS), Eglin AFB, FL. The GEODSS system supports the United States Strategic Command (USSTRATCOM) and theater war fighter's requirements through the detection and surveillance of deep space satellites. The system detects, tracks, identifies, and reports on all deep-space man-made objects in the Earth's orbit within the telescopes' field of view. The GEODSS Dets perform the mission using three 1-meter telescopes each with a 1.68 degree field of view; low light level, electro-optical cameras; and high speed computers. These optical sensors detect sun light reflecting off of space objects. Mission operations are conducted between civil sunset and sunrise. Satellite information is provided to the Joint Space Operations Center and 18 Space Control Squadron (JspOC/18 SPCS) at Vandenberg AFB, California.
- 1.1. SCOPE. The Contractor shall provide non-personal services to manage, operate, maintain, and provide logistical and general support services for the GEODSS system at Det 1, Det 2 and Det 3. In addition to providing GEODSS system operation and maintenance (O&M) requirements, contracted services include exercises and testing, communications-electronics maintenance management, electronic systems maintenance, logistics management, communications, environmental, civil engineering, occupational health, security and information management requirements. Contracted services shall also be provided in support of system upgrades and modifications. The Contractor shall perform organizational level maintenance on system upgrades and modifications once they are accepted by the Government.
- **1.1.1. GEODSS PWS Requirements.** Except as provided in Section 3, Government-Furnished Equipment, Property, Information and Services, the Contractor shall provide all personnel, tools, materials, transportation, supervision and other items necessary to perform GEODSS PWS requirements on a 16-hours-a-day, 7-days-a-week (16/7) basis. The Contractor's furnished materials and equipment shall include vehicles, vehicle fuel, tools, custodial supplies, office administrative supplies and equipment, grounds-keeping equipment and any other supplies and materials not furnished by the Government which the Contractor believes necessary to perform these requirements. Unless otherwise specified, the stated requirements pertain to all Dets; inclusions or exclusions shall be clearly stated in individual PWS paragraphs (paras).
- 1.1.2. N-CSDS Sidecar. N-CSDS sidecar is being deployed to GEODSS Det 1, Socorro, NM, Det 2, Diego Garcia, BIOT, and Det 3, Maui, HI as part of the mission system. The sidecar hardware improves space situational awareness (SSA) responsiveness by integrating existing space surveillance network (SSN) sensors, processing and control nodes into a net-centric environment without impacting current mission operations. The N-CSDS sidecar consists of one standard rack containing eight (8) Dell servers, two (2) virtual layer 7 XML Gateway (each hosted on separate Dell servers), and other associated hardware and the software. NOTE: The provisions of Chapter 4 also apply: maintenance of the sidecar shall follow all standard maintenance practices. The Government will provide additional information on Net-Centric Sensors and Data Sources (N-CSDS) support requirements as system documentation and technical orders (TOs) are finalized.

- **1.1.2.1. Blu Ray Discs.** Operation of the sidecar requires periodic creation of blu ray discs. The Contractor shall ship the discs to NSA for destruction IAW the Classified Material Conversion (CMC) procedures (attached). The discs shall be wrapped and mailed IAW DoDM 5200.01, Vol 3. The discs shall be shipped on a quarterly basis. The discs shall be sent by registered mail or FEDEX to the following address: National Security Agency, Attn: CMC-Degaussing Suite 6875, 9800 Savage Road, Fort George G. Meade, MD 20755-6875. The contractor shall purchase blu ray discs and pay for quarterly shipping of discs to NSA for destruction under the CR CLINS after OPS acceptance to support the operation of the N-CSDS sidecar.
- **1.1.3. Risk Management Framework (RMF) for DoD Information Technology (IT).** Provide information to support certification activities and maintain the RMF for DoD IT artifacts IAW AFI 33-200 para 2.27.8 and DoDI 8510.01. The Contractor shall not implement any local hardware or software changes that will impact the RMF for DoD IT package without prior authority.
- **1.1.4. Testing Agency Support**. Interface and assist in testing activities being accomplished by Government and other Contractor team personnel. Provide data and feedback to the teams on the adequacy of test procedures noting any system deficiencies or anomalies, and assist in developing methods for ensuring all testing is complete prior to system acceptance.
- **1.1.5.** Continuance of Performance/Mission Essential Services. In the event of a crisis declared by the President of the United States and/or the Secretary of Defense, the Contractor shall continue all PWS requirements. The Contractor shall continue services through all Force Protection and Defense Conditions without interruption. In a time of crisis, other services to increase the security and well-being of the Sites may be required on a 16/7 basis as identified by the Det Commanders (CCs) and directed by the Contracting Officer (CO), and will be funded via cost-reimbursable (CR) contract line item number (CLIN).
- **1.1.5.1. Contingency Planning.** The Contractor shall develop a contingency plan for continued operations and timely return of systems to operational status in the event of a declared crisis, catastrophic and non-catastrophic events and work stoppages for each site. The plan shall contain the following information at a minimum: contingency actions, emergency work requests, natural disasters, Detachment 2 turnover/logistics plan, labor strike/personnel walk-off, contingency mobilization, mobilization recall commitments, and restoration of mission essential functions within 24 hours. Provide a copy of the contingency plan at contract start and updates as changes occur to 21 CONS/LGCZB.
- **1.1.5.2. Incident Reporting**. The Contractor shall notify the Det CC, Government Program Manager (PM), CO and other responsible agencies involved of all incidents, accidents, threats, events, and natural disasters (impending or actual) that may affect or involve the performance of PWS requirements.
- **1.1.6. Outside Agency Support.** The Contractor shall interface with other Contractors and Government agencies in support of programs and efforts dealing with the evolution and operation of systems and equipment, as well as providing day-to-day Det support services. This includes providing technical assistance and advice to other Contractors or Government agencies to support design, development, and installation of new facilities, systems, or equipment within existing PWS areas of expertise.
- **1.2. GENERAL REQUIREMENTS.** The Contractor shall:

- **1.2.1. GEODSS Operating Instructions (GOIs).** Document current operations in GOIs where other manuals and directives are not available or do not provide sufficient instructions. See Appendix A, Report Number R1-1.1.
- **1.2.2. Technical Order (TO) Distribution and Control.** Establish and maintain a technical publications program IAW TO 00-5-1.
- **1.2.3. Quality Program.** Develop, implement and maintain a Quality Program ensuring service delivery meets or exceeds performance requirements in the PWS.
- **1.2.3.1. Quality Program Plan.** Implement the Quality Program IAW a Quality Program Plan (QPP) providing insight into the following quality processes: internal audits including procedures and oversight, identification of deficiencies, prevention of nonconforming services, and corrective measures if performance requirements are not attained. Provide a copy of the QPP to the Government Quality Assurance Manager (QAM) at contract start and updates as changes occur. Provide copies of internal audits to the Government Quality Assurance Manager.
- **1.2.3.2. Site Quality Status Report (QSR).** The Contractor shall generate and distribute a QSR. See Appendix A, Report Number R1-1.2.
- **1.2.4. Technical Meetings and Conferences.** The contractor shall participate in sustainment and performance working group meetings, Space Situational Awareness Conferences, Multi-Functional Team (MFT) meetings, the weekly Maintenance Production Status Teleconference (provide briefing slides) and all invited ad hoc technical meetings and conferences that affect the contractor's execution of the operate, maintain, and repair functions of this contract. See Appendix A, Report Number R1-1.3.
- **1.2.5. Familiarization Briefings and Tours.** Conduct Det briefings, such as technical orientation/familiarization briefings, and tours when requested by the Det CC.
- **1.2.6. Briefings, Meetings and Tours Workload Data.** Maintain workload data on briefings, meetings and tours. See Appendix A, Report Number R3-3.2.
- **1.2.7. Budget Information.** Participate in developing budget information including projected costs for unfunded requirements with justification and impact statements.
- **1.2.8. Referenced Publications.** The Contractor shall comply with the requirements cited in PWS publication references preceded by "IAW, "shall comply with" or "apply." *See Appendix B for list of GEODSS publications.*
- **1.2.8.1. Host Installation Plans, Policies, and Procedures.** The Contractor shall comply with the Host Installation plans, policies, and procedures referenced in Appendix C.
- **1.2.8.2. Industry Standards and Commercial Best Practices.** When not otherwise specified, apply industry standards and commercial best practices and comply with local, state and federal statutes in the performance of PWS requirements.
- **1.2.8.3.** Changes to Publications and Host Installation Plans, Policies, and Procedures. Notify the CO of any changes in publications listed in Appendix B and Host Installation plans, policies and procedures in Appendix C within 30 days of receipt of revisions, changes, supplements, and

notifications of rescission. Contractor shall immediately implement those changes which have no cost impact. Before implementing any change that shall result in an increase in contract price, the Contractor shall submit to the CO a price proposal within thirty (30) calendar days following receipt of the change by the Contractor. The CO and the Contractor shall negotiate the change into the contract under the provisions of the contract clause entitled "Changes." Failure of the Contractor to submit a price proposal within thirty (30) calendar days following receipt of the change entitles the Government to performance according to such change at no increase in contract price.

- 1.2.9. Records, Documentation, and Reports. The Contractor shall:
- **1.2.9.1. Existing Records.** Maintain all Government records in the format provided.
- **1.2.9.2. Generated Documentation.** Maintain all records generated in performance of PWS requirements in electronic format and make a copy available for Government review upon request.
- **1.2.9.3. Contractor Reports.** Provide electronic reports to the Government as specified in *Appendix A*. Contractor format is acceptable unless specified otherwise.
- **1.2.10. Training.** The Contractor shall manage training and development activities designed to ensure technical competency of Contractor personnel. Maintain individual training records for all personnel. Training records shall reflect all training received on- and off-site. The Contractor shall fund for all personnel training unless it is Government-unique as specified below.
- **1.2.10.1. Government-Unique Training.** Some required training is Government-unique and is identified as required training in individual PWS chapters. Additionally, the Contractor shall complete Computer-Based Training (CBT) courses deemed necessary by the Air Force (AF).
- **1.2.10.2. Reimbursable Training Costs.** The Government shall provide Government-unique training, and shall reimburse the Contractor initially for personnel attendance. The Contractor shall reimburse the Government for Government-funded training expenses when personnel turnover causes the need for repetition of Government-provided training. Knowledge gained by Contractor personnel at Government training courses and conferences shall be disseminated to other Contractor personnel requiring the same information.
- **1.2.11. Contractor Manpower 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 using the following web address http://www.ecmra.mil. See Appendix A, Report Number R1-1.4.
- **1.2.11.1. Reporting Inputs.** Reporting inputs shall be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the ECMRA help desk.
- **1.3. PROGRAM MANAGEMENT.** The Contractor shall immediately report problems affecting functional area accomplishment or Contractor performance to the Det CC, Government PM, and CO. The Contractor shall:
- **1.3.1.** Key Points of Contact. Provide the names, home, and duty phone numbers of key points of contact at each of the GEODSS locations to the Det CCs, GEODSS PM and CO in writing seven calendar days after contract award and within five calendar days of any subsequent changes

thereafter.

- **1.3.2. Safety and Security.** Inform, educate, and provide guidance to Government personnel (military and civilian) at the Dets in the interest of safety, security, and mission accomplishment. Immediately report any violations to the Det CC or designated representative.
- **1.3.2.1. Safety Training and Meetings.** The Contractor shall attend Host Installation safety training and provide safety information to all Contractor personnel. The Contractor shall attend Host Installation safety meetings and participate in safety committees IAW support agreements (SA), local instructions, and policies.
- **1.3.3. Site Personnel Evacuation.** The Contractor shall evacuate a site whenever directed by the Det CC, or at Contractor discretion if Det CC is unavailable. At Det 1, the Contractor may be required to evacuate personnel in support of White Sands Missile Range special missile tests and launches.
- **1.3.4. Detachment Commander (Det CC) Weekly Briefings**. Provide a formal weekly briefing to the Det CC. Briefing shall include status of operations and maintenance and any inspections, exercises, visits, training, funding status, and other information as requested by the Det CC.

CHAPTER 2 OPTICAL SENSOR OPERATIONS AND SUPPORT

- **2.0. GENERAL.** The Contractor shall provide optical sensor operations, technical services, operations support, and maintenance of Det equipment to meet sensor mission requirements.
- **2.1. SENSOR OPERATIONS.** The Contractor shall accomplish the sensor mission IAW Space Surveillance Operations (SSOps) Operating Instruction (OI) 534-9(S) and JspOC/18 SPCS taskings. Operate all available sensors during the operational period to meet taskings. Ensure that all available sensor time in excess of that required to accomplish taskings is used to perform area searches, developing/testing approved tactics techniques and procedures (TTPs), future tactics improvement proposals (TIPs), or other tasks. In addition, the Contractor shall:
- **2.1.1. Mission Scheduling.** Accomplish mission scheduling before the start of the operational period by identifying routine and special metric taskings, Space Object Identification (SOI) signature gathering and raw video collection, and any TIPs to be accomplished during the operational period. Special metric tasking of high interest to Higher Headquarters (HHQs) shall be jointly planned and executed among the 3 detachments whenever possible. Incorporate SOI taskings to maximize system accomplishment of daily, weekly, and monthly tasking requirements. Schedule attempts to provide time separation within weather, equipment, and tasking constraints based upon weekly or monthly requirements. The Contractor shall coordinate with the Det CC prior to testing out preliminary procedures for potential TIPs. The Contractor shall coordinate with the Det CC prior to implementing proposed TIPs that have been tested.
- **2.1.2. Taskings.** Accomplish HHQ taskings and reporting requirements issued by the JspOC/18 SPCS, the Distributed Space Command and Control-Dahlgren (DSC2-D), National Air and Space Intelligence Center (NASIC) and USSTRATCOM. *Maintain workload data on number and frequency of taskings. See Appendix A, Report Number R3-3.2.*
- **2.1.2.1. Metric Taskings.** Perform metric taskings as directed by JspOC/18 SPCS in the Consolidated Tasking List (CTL) and associated updates.
- **2.1.2.2. SOI Taskings.** Complete 100 percent of SOI-tasked objects each month. Maintain workload data on number and frequency of SOI taskings. See Appendix A, Report Number R3-3.2. **NOTE:** When weather, non-contractor liable downtime, or physical/geographic limitations results in the inability to obtain 100% of monthly SOI requirements and all reasonable attempts have been made, document it in a memorandum and submit it to the COR. If deemed legitimate by the COR, SOI tasking requirements will be marked as met for the month.
- **2.1.2.2.1. SOI Reporting.** Report to tasking agency, objects below 10 degrees site horizon for Dets 1 & 3, objects below 15 degrees horizon for Det 2, or objects with unique characteristics that preclude collecting observations within tasking agency's requirements for consideration of tasking removal. If object is not tracked due to the above limitations, notify the Contracting Officer Representative (COR).
- **2.1.3. Manually Tasked Objects.** Enter taskings manually if not received through normal channels. Perform manual scheduling, special sensor settings and other special techniques. The Contractor shall document unique procedures that are not included in technical orders, for potential TIP consideration on an AF IMT Form 4326 or in locally developed procedures. AF IMT Form 4326s and

proposed locally developed procedures shall be submitted to the Det CC for review/processing and potential initial approval for use through AFSPC/A3, and/or at the discretion of the 21 SW/CC.

- **2.1.4. Operations Logs.** Document operations, security events, equipment status, authorized software changes, weather, shift changes, changing of the Zulu day and any other significant events in an operations log. Include start and end times for events as well as initials of individuals exchanging information. Maintain operations logs in Contractor-preferred system (e.g., hard copy, Microsoft Access, etc.) which ensures data cannot be altered after entries are made and make available to Government upon request.
- **2.1.5. Sensor Calibrations.** Complete calibrations IAW GEODSS technical order (TO) 31-S1-2FSQ-201-1. Accomplish calibrations on a non-interference basis for Category I mission taskings IAW SSOps OI 534-9(S).
- **2.1.5.1. Mount Calibrations.** Conduct mount calibrations IAW TO 31S1-2FSQ-201-1 to ensure mission accomplishment. Document erroneous information in the operations log. Whenever weather or priority tasking does not allow calibrations to be performed, use default calibrations until conditions and tasking requirements allow sensor calibrations to be accomplished.
- **2.1.5.2.** Calibration Satellites (CalSats). When directed by JspOC/18 SPCS, accomplish and track CalSats at specified frequencies with each available sensor.
- **2.1.5.3. SOI Calibrations.** Accomplish SOI calibrations for sensors scheduled for SOI data collection or to ensure alignment.
- **2.1.6. Photometric Brightness Measurements (aka Visual Magnitude Data).** Ensure photometric brightness measurements are made available to JspOC/18 SPCS and NASIC IAW Space Surveillance Operations (SSOps) Operating Instruction (OI) 534-9 (S).
- 2.1.7. Sensor Contractor-Controlled Availability (A_{CC}) by Site.
- **2.1.7.1. A**_{CC} **Calculation.** Provide the monthly calculation for A_{CC} in the QSR. Maintain an overall sensor A_{CC} each calendar month of not less than 99% to meet mission operational requirements defined in SSOps 534-9(S). See Section 2, GEODSS Service Summary. A_{CC} is expressed as a percentage and represents that portion of time the system is performing its assigned mission based on the Contractor-liable downtime (CLD) relative to a specified operating time. The A_{CC} is calculated on a monthly basis as follows:

A_{CC} = Active Minutes – CLD Downtime Active Minutes

2.1.7.2. A_{CC} Sample Calculation. If a site had three sensors available and all three were 500 minutes of available operational time, the total active hours would be 1500 minutes. If two sensors were available for the entire period and one sensor was not available for 75 minutes because of Contractor personnel operator error, the calculation for A_{CC} would be calculated as A_{CC} =1425/1500=.95. See Appendix E for A_{CC} formula definitions.

2.1.7.3. Reserved

2.1.8. GEODSS Operations Training Plan. Develop and implement a GEODSS Operations Training Plan designed to keep operators proficient in GEODSS mission system requirements.

Standardize the training program across the three GEODSS sites. Conduct initial and monthly recurring training, using a task-based approach, addressing mission performance requirements in this chapter. Monthly recurring training shall cover all individual tasks within a one-year timeframe. Provide a copy of the training plan at contract start and updates as changes occur. Provide a copy of the training plan and training materials to the Government upon request.

- **2.1.8.1. Annual Certification.** Conduct and document training to ensure proficiency in all required functions before operating mission system. Memorandums AFSPCGM2015-13-01 and AFSPCGM2016-13-01 may be used as guidance until AFI 13-600, AFI 13-602 Volumes 1-3, and AFI 13-6(MDS) Volumes 1-3 are completed. Maintain a comprehensive list of all monthly sensor operations training tasks. Personnel on leave or on temporary duty (TDY) shall receive recurring training prior to their first duty shift upon return. Certify in writing that operations personnel have completed all applicable training for an operational position. No individual shall perform any system operations task for which they have not been trained unless under the direct supervision of fully trained and certified personnel. Documented completion of recurring training as outlined above and within the Contractor's Operations Training Plan shall constitute annual re-certification.
- **2.1.8.2. Individual Training Records.** Maintain individual training records for all operations personnel. Training records shall reflect all training received on- and off-site.
- **2.1.8.3.** Hands-On Equipment Operations Training. Provide initial on-site hands-on equipment operations training for AF personnel. When the Contractor is training a military member, a minimum of one sensor shall remain in operational mode. All available sensors shall be made available for the trainee to use, provided a certified Contractor is overseeing him. The Contractor shall not be held accountable for any mission degradation or equipment damage due to the actions of a certified military member.
- **2.1.9.** Daily Status Report (DSR). Develop and maintain a DSR. See Appendix A, Report Number R1-2.2.
- **2.2. TECHNICAL SERVICES.** The Contractor shall provide technical services to meet sensor mission requirements on a continuous basis. The Contractor shall:
- **2.2.1. Collaboration.** Support system life-cycle activities such as program management reviews, design reviews, data collection, tests, physical and functional configurations audits.
- **2.2.2. System Performance.** Monitor root mail, system logs, security logs, security configuration and performance utilities to assure system performance and identify and correct imminent system failures as defined in GEODSS TO 31S1-2FSQ-201-1.
- **2.2.3.** System Malfunctions or Anomalies. Notify the Det CC of all system malfunctions or anomalies upon occurrence.
- **2.2.3.1. Deficiency Reporting (DR).** Generate a DR within 30 days of an anomaly or outage (if required for the anomaly or outage) IAW T.O. 00-35D-54, Chapter 3. Maintain supporting data including references to associated Problem Reports (PRs) (if any), computer printouts and data tapes.
- **2.2.3.2. System or Software Modifications.** Generate a DR for system or software modifications IAW T.O. 00-35D-54, Chapter 3.
- 2.2.4. System Requirements Validation Board (SRVB). The Contractor shall act as coordinator

and recorder for the GEODSS SRVB, providing technical expertise as requested. A single SRVB meets representing the three GEODSS sites and provides information to the 21st Space Wing Requirements Validation Board (WRVB). Technical inputs may include improvements to software, hardware, operations and maintenance procedures, equipment availability, and utilization.

- **2.2.4.1. System Changes.** Advise the SRVB in identifying and prioritizing new requirements for, and changes to, the operational system IAW 21 SWI 21-131, Chapter 2, paragraph 2.6. Submit change requests to the WRVB.
- **2.3. MISSION SYSTEM SOFTWARE AND EQUIPMENT O&M.** The Contractor shall operate, maintain, repair and restore the GEODSS mission system to meet A_{CC} and mission requirements. The Contractor shall:
- **2.3.1. Mission System Software.** Assure continued performance of the mission system IAW the GEODSS System Administrator's Manual (SAM) GDS-D-SAM-09000 to meet mission requirements.
- 2.3.1.1. Mission System Administrator (MSA) Training, Certification and Background Investigation Requirements. Contractor MSAs, assigned to perform mission system administration, shall:
- **2.3.1.1.1. MSA Training.** Complete SAM training (training materials provided by the Government) as well as the Contractor-developed GEODSS operations training. See para 2.1.8 for operations training requirements.
- **2.3.1.1.2. MSA Certification.** Perform Information Assurance Technical (IAT) Level II requirements and maintain Cybersecurity certification IAW DoD 8570.01-M, and a current Tru64 UNIX Operating System Certification, Red Hat Linux, and MS Windows. Report changes to certifications to 21 SW Cybersecurity on an annual basis or upon changes to MSAs.
- **2.3.1.1.2.1. Cybersecurity Certification.** The contractor shall fund the annual Cybersecurity certification fee for the system administrator and/or assistant system administrator. The Contractor is responsible for earning the required Continuing Education (CE) credits during the year to allow the individual to be recertified at the end of his/hers certification cycle. Should the Contractor not complete the required recertification training in a year's time, the Government is not responsible for any testing or recertification fees. Any cost for initial Cybersecurity certification testing is the individual's or Contractor's responsibility.
- **2.3.1.2. Software Maintenance, Configuration, and Support.** Maintain data processing software, database, and system files; perform software installation and system reconfiguration and maintain associated documentation. Provide communications and networking support.
- **2.3.1.3. Software Outages, Backups, and Restoral Actions.** Troubleshoot software-related outages, backup data and restore operations. Detect and correct faulty computer system processes and replace, restore, or delete corrupt or faulty files. Restore data files, operating systems, and application software from backups to recover from catastrophic software failures on an as-needed basis.
- **2.3.1.4.** Accounts. Provide, monitor, control, and restore user accounts and user access to assure GEODSS system integrity and operability.
- **2.3.1.5. Time Co-Efficient Updates.** Synchronize the Data Processing Group (DPG) and Sensor Controller Group (SCG) computers to Universal Time Coordinated (UTC) IAW the SAM for correct

operation of the GEODSS astronomic algorithms.

- **2.3.1.6. Disk Management.** Monitor disk space and fragmentation and balance disks.
- **2.3.1.7. Documentation.** Update and maintain documentation on mission system software and site-adaptable parameters integrating changes as required to reflect the current mission system operational and support baseline.
- **2.3.1.8. Preventive Maintenance.** Perform preventive maintenance of mission system software as defined in GDS-D-SAM-09000.
- **2.3.1.9. Software Maintenance Plan.** Implement and maintain an annual Mission System Software Maintenance Plan which details the approach and timeline for meeting the software and MSA support requirements. Document MSA support activities in the System Assessment Report (SAR). See Appendix A, Report Number R1-2.1.
- **2.3.2. Mission System Equipment O&M.** Operate and maintain all mission computer equipment and peripherals needed to support sensor operations IAW GEODSS 31-series TOs on a 16/7 basis. Maintenance requirements and GEODSS TOs are found in Chapter 4, Communications –Electronics (C-E) Maintenance Management.
- **2.3.2.1. Mission System Failures.** Respond to notification of system problems (red or yellow (amber) site condition) within two hours, diagnose and recover system. Initial response can be telephonically or through e-mail, if the MSA is not physically present at a Det.
- **2.3.2.1.1. Troubleshooting Assistance.** Assist sustainment personnel as required in identifying and isolating faulty systems or subsystems in the GEODSS Auxiliary Instrumentation Group (AIG), DPG, SCG, and the GEODSS secure data communications systems.
- **2.3.2.1.2. Mission System Actions.** Coordinate with the Det CC for power shutdown, maintenance and system reconfiguration and restoration actions that could impact operations.
- **2.3.2.1.3. Component Replacement.** Replace line replaceable unit (LRU) or component. If replacement components are not available, contact the item manager and Det CC.
- **2.3.2.2. Mission System Backups.** Ensure servers, workstations, and communications devices are backed up for catastrophic recovery IAW GDS-D-SAM-09000, para 5.1, CM Back-up/Restore Process. Accomplish server backups prior to entering a trial period for any software version release or hardware upgrade. Note the date and time of system backups in the SAR and verify the contents and integrity of the backups. See para 2.3.1.9 for SAR requirements. Store the two most recent full sets of backup tapes in a secure and auditable location.
- **2.3.2.3. Mission System Equipment Inventory.** Perform inventory control and account for mission computer equipment on the Custody Authorization/Custody Receipt Listing (CA/CRL).
- **2.3.2.4. Mission System RMF for DoD IT.** Provide information to maintain the mission system RMF for DoD IT IAW AFI 33-200 para 2.27.8 to SMC/SYGO. Maintain an active account in the Enterprise Mission Assurance Support Service (eMASS) tool to support certification and accreditation. Accomplish required DISA training and testing for eMASS. Notify SMC/SYGO prior to implementing any local hardware or software changes impacting the mission system RMF for DoD IT package.

- **2.4. OPERATIONAL SUPPORT REQUIREMENTS.** The Contractor shall respond to the direction of the Det CC in support of operational requirements. The Contractor shall:
- **2.4.1. Emergency Actions.** Perform emergency actions as requested by the Det CC or Crisis Response Element (CRE). Report on site within two hours of notification. Initial response can be electronically or via telephone, if Contractor personnel are not physically present at a site.
- **2.4.2. Operational Reporting.** Conduct operational reporting on a 16/7 basis as follows:
- **2.4.2.1. Events or Incidents Reporting.** Notify the 20 SPCS Mission Operations Center (MOC) with information on events or incidents that may require Operational Reporting (OPREP), and Operations Capability (OPSCAP) reporting IAW AFI 10-206, AFI 10-206 AFSPC Sup 1, and its required guidance memorandums, SSOps OI 534-9(S), and 21 OG policy letters. Maintain instructions for Information Condition (INFOCON) IAW Strategic Instruction (SI) 527-1, OPREP, Force Protection Condition (FPCON), attainment and all other reporting requirements for both exercise and real world status.
- **2.4.2.2. Reportable Situations.** Notify the Det CC of any reportable situation. Make required notifications and submit reports. If the Det CC cannot be immediately contacted, accomplish the necessary voice and hard copy reporting and continue with attempts to contact the Det CC until reached.

2.4.2.3. Reserved.

- **2.4.2.4. Chatroom Communications.** Establish the necessary chat-type accounts via Secure Internet Protocol Network (SIPRNet) and Non-secure Internet Protocol Network (NIPRNet). Ensure operators are capable of manning and utilizing "chatrooms" or similar collaboration applications (which applications shall be at the discretion of HHQ.
- **2.4.2.4.1. Logged-In Account.** When directed by HHQ, the Contractor shall maintain an actively logged-in account for the required SIPRNet and NIPRNet collaboration chatrooms as designated by HHQ.
- **2.4.2.4.1.1.** Checking Logged-In Account. When actively logged into the HHQ-designated account and chatroom, the Contractor shall check for SIPRNet/NIPRNet chatroom updates and make any postings needed in response to questions or direction from HHQ approximately every 20 minutes. During periods of exercise and/or contingency, the Contractor shall continuously monitor or check collaboration chatrooms approximately every 10 minutes via the SIPRNet & NIPRNet (as determined by contingency or exercise requirements) and make any postings needed in response to questions or direction from HHQ.

2.4.3. Reserved.

CHAPTER 3 EXERCISES AND TESTING SUPPORT

- **3.0. GENERAL.** The Contractor shall participate in exercises and testing. Immediately limit or terminate support if personnel are needed to meet real world operational requirements. The Contractor shall:
- **3.1. DET- AND HHQ-DIRECTED EXERCISES AND INSPECTIONS.** Participate in Det exercises and support inspection teams as requested by the Det CC. *Maintain workload data on exercises and inspection teams. See Appendix A, Report Number R3-3.2.*
- **3.1.1.** Trusted Agent (TA). Designate a TA at the request of the Det CC, or representative, before the start of an exercise. The TA shall assist the Det CC in developing and implementing exercises. The three GEODSS sites may or may not participate in exercises during the same timeframe. Contact the Det CC to schedule TA training.
- **3.1.2. Exercise Reports.** Provide findings to the COR for the completion of the After Action Report. Submit exercise inputs to the COR by the time designated. The COR will review inputs, finalize and return it to the Contractor to incorporate changes and submit report.
- **3.1.3.** Crisis Response Element (CRE). Participate in the unit CRE team during real world events, headquarters inspections, or local exercises as determined by the Det CC. The Contractor Site Manager and designated key personnel shall report on site no later than two hours for Det 1, one hour for Det 2, and two and one-half hours for Det 3, after initial notification. The Contractor is excluded from headquarters inspections or local exercises outside of 16/7 operations.
- **3.1.4. Develop, Test, Execute Tactics Improvement Proposals (TIPs)**. The Contractor shall develop, submit on an AF IMT 4326, and test/validate new and existing TIPs. The Contractor shall maintain workload data on TIP development and testing. See Appendix A, Report Number R3-3.2. The primary areas of operations for consideration include but are not limited to improvements in Low Earth (LEO) tracking; Molynia orbits searches, searches on objects with low visual magnitude (vMag), improved usefulness in uncorrelated target (UCT) data collection, searches conducted between nautical and civil sunset/sunrise, searches on JspOC/18 SPCS attention list objects, and searches on JspOC/18 SPCS lost list objects.
- **3.1.4.1. Formal TIP Coordination and Implementation Process.** The Contractor shall submit Contractor-developed and validated TIP proposals to the Det CC for approval on AF Form 4326 IAW ASPCI 10-260 Attachment 2. The Det CC will notify the Contractor in writing if the submitted TIPs are formally approved via the TTP process as described in ASPCI 10-260, Chapter 2.
- 3.2. TESTING SUPPORT. The Contractor shall:
- **3.2.1. Installation and Checkout Test Plan.** Develop and submit installation and checkout test plans for newly installed hardware, firmware, or software through the Det CC to the 21 OG/TD for final approval. See Appendix A, Report Number R1-3.1. Execute approved installation and checkout plans with Government oversight for final approval and acceptance by the Government.
- **3.2.2. Depot/Testing Agency Support.** Interface and assist in testing activities being accomplished by Government and other Contractor team personnel. Provide data and feedback to the teams on

the adequacy of test procedures, noting any system deficiencies or anomalies, and assist in developing methods for ensuring all testing is complete prior to system acceptance.

- **3.2.2.1.** Installation, Development, Test and Evaluate (DT&E) and Software and Operational Test and Evaluation (OT&E) Support. Provide level 1 support for installation and evaluation of all software and hardware modifications to include planning, technical and administrative support. Contractor shall provide organizational level maintenance in support of installation activities, perform applicable test plan actions and notify the Det CC and testing/depot agencies of any system anomalies.
- **3.2.3 Visiting Team Preparation.** Support other Contractor teams visiting the Dets. Process visit requests, provide information on local lodging, and coordinate receipt and storage of project materials, and equipment. *Maintain workload data on Contractor team support. See Appendix A, Report Number R3-3.2.*

CHAPTER 4 COMMUNICATIONS-ELECTRONICS (C-E) MAINTENANCE MANAGEMENT

- **4.0. GENERAL.** The Contractor shall ensure C-E systems are serviceable, safely operable, and properly configured to meet mission requirements and system readiness. Plan, schedule, direct, organize, coordinate, control, document, report, and execute all actions necessary to maintain C-E equipment operability and availability. Perform inspections, repairs, modifications, analyses, and other maintenance related tasks. Maintain logs, records, inspection forms and Maintenance Information Systems (MIS) reflecting equipment status, inspections, and maintenance performed.
- **4.1. SCOPE OF MAINTENANCE.** The Contractor shall perform all authorized organizational level maintenance IAW GEODSS TOs: 31-10-7, 31S1-2FSQ-114-6WC-1, 31S1-2FSQ114-41, 31S1-2FSQ114-81, 31S1-2FSQ114-91, 31S1-2FSQ114-181, 31S1-2FSQ114-183, 31S1-2FSQ114-191, 31S1-2FSD3-12, 31S1-2FSQ114-271, 00-33A-1001, and N-CSDS Technical Order(s). Site maintenance level authorized for repair is determined by Source, Maintenance and Recoverability (SMR) Codes and Expendability, Recoverability, Repairability Codes (ERRC) assigned to stock listed items. In addition, the Contractor shall:
- **4.1.1. Depot Level Maintenance.** Request depot level maintenance when the maintenance required exceeds organizational level maintenance. *Maintain workload data on number and frequency of requests for depot level maintenance.* See Appendix A, Report Number R3-3.2.
- **4.1.2. Non-SBSS Inventory Items.** Maintain sufficient non-stock listed items (outside the AF inventory) to support the mission system.
- 4.2. C-E MAINTENANCE MANAGEMENT. The Contractor shall:
- **4.2.1. Programmed Depot Level Maintenance (PDLM) Requests.** Submit requests for C-E PDLM requirements and schedule on Air Force Technical Order (AFTO) Form 227 IAW TO 00-25-108, figures 2-2 and 2-3.
- **4.2.2. Requests for Assistance.** Submit Maintenance Assistance Requests for Technical Assistance (TA), Engineering Assistance (EA), Emergency Depot Level Maintenance (EDLM) or Urgent Depot Level Maintenance (UDLM). See Appendix A, Report Number R1-4.1.
- **4.2.3. Equipment Status Reporting (ESR).** The contractor shall fulfill requirements listed in AFI 21-103, AFSPC Sup 1, sec 6.4.6. and TO 00-33A-1001, para 3.2.15. Report equipment status changes IAW AFI 21-103, AFSPC Sup 1, sec 6.6. as they occur. Input data into the Integrated Maintenance Data System (IMDS) ESR subsystem per AFI 21-103, AFSPC Sup 1, sec 6.5.
- **4.2.3.1. ESR Changes.** Implement changes to ESR provided by 21 OSS/MASW.
- **4.2.3.2. SRD Reporting.** Report all C-E equipment that is assigned Standard Reporting Designators (SRDs) that begin with the alphanumeric characters 1 through 8, B, C, E, F, J, K, Q, and U, as listed in the IMDS Reliability and Maintainability Information System (REMIS) SRD Table.

- **4.2.4. Maintenance Data Collection (MDC).** Collect, input and submit MDC data and utilize all appropriate documentation forms for MDC on systems listed as reportable in the REMIS SRD tables.
- **4.2.4.1. IMDS Data Entries.** Input all MDC data on reportable equipment into the IMDS MDC subsystem IAW TO-00-20-2, paras 1.10, 2.3, and Chs 3 through 7, TO 00-33A-1001, para 3.2.1. applicable –06 TOs, and the following user manuals: AF Computer System Manuals (AFCSMs) 21-556V2, -560V2, -561V2, -562V2, -563V2, -564V2, -569V2, and -571V2.
- **4.2.5. Scheduled and Unscheduled Maintenance.** Maintain, calibrate, and repair C-E equipment, including upgrades and modifications and for unscheduled maintenance initiate restoration actions within two hours. Schedule maintenance downtime IAW 21 SWI 10-202 paras 1 through 1.2.3, 1.2.3.2 through 2.1.3, and 2.1.5 through 2.1.5.2. Complete scheduled system downtime for maintenance between 75% and 100% of the estimate.
- **4.2.5.1. Preventive Maintenance Inspections (PMIs).** Load all preventive maintenance routines into the IMDS database for recurring equipment PMIs.
- **4.2.5.2. Maintenance Events.** Document scheduled and unscheduled maintenance events for MDC Job Data Documentation (JDD) in the IMDS database for equipment with MDC reportable SRDs IAW TO 00-33A-1001, para 3.2.1. Reference TO-00-20-2 for MDC.
- **4.2.5.3. Operational Downtimes.** Operational downtimes will be the responsibility of the contractor. The contractor will submit all Combat Capability Assessment Schedule (CCAS) inputs for A Retrofit or Modification, B Depot Maintenance Scheduled and C Test coded line numbers. Contractor will coordinate with Det CC for approval prior to submitting downtime requests in CCAS.
- **4.2.5.4. Schedule Request Notifications.** Contractor will notify Det CC or designated representative via email as a minimum once the schedule request has been successfully inputted into the CCAS website.
- **4.2.6. TO System Improvement.** Submit AFTO Form 22 to recommend changes IAW TO 00-5-1, para 9.1.14, 9.1.15, 9.2, 9.6, and 9.7. Provide a copy to the Det CCs. See Appendix A, Report Number R1-4.2.
- **4.2.6.1. Time Compliance Technical Order (TCTOs).** Comply with and respond to TCTOs (Field Change Orders (FCOs) and Equipment Change Orders (ECOs)) within the specified time. Process and document TCTOs, time change items, and other approved modifications using the instructions in TO 00-5-15.
- **4.2.6.2. Proposed Modifications.** Route proposed modifications through the *SRVB* process. *See Chapter 2, para 2.2.4 for SRVB requirements.*
- **4.2.7. Repairable Assets Status.** Determine repairable status of failed assets by the SMR/ERRC and restore serviceability.
- **4.2.7.1. Non-SMR Coded Items.** Repair items with no SMR code (XB3 items) assigned when cost effective or necessitated by mission requirements IAW TO 00-20-2, Table 3-2.
- **4.2.7.2. SMR Code Changes.** Submit request for SMR code changes using AFTO Form 22 Technical Reporting IAW TO 00-5-1 and TO 00-25-195, para 4.1 and 4.2.
- **4.2.7.3. Maintenance Turnaround (TRN).** Accomplish TRNs for Due-in-for-Maintenance (DIFM)

item repairs IAW TO 00-20-3, para 3.4 and 3.5.

- **4.2.8. Configuration Control.** Maintain configuration control IAW GEODSS TOs: 31-10-7, 31S1-2FSQ114-41, 31S1-2FSQ114-81, 31S1-2FSQ114-91, 31S1-2FSQ114-181, 31S1-2FSQ114-183, 31S1-2FSQ114-191, 31S1-2FSD3-12, and 31S1-2FSQ114-271.
- **4.2.9. Cannibalization.** Cannibalization may only be used as a last resort and before taking such action, all other support avenues must be exhausted.
- **4.2.9.1.** Cannibalization Actions. Ensure all cannibalization actions are approved through Det CC and 21 SW Chief of Maintenance IAW TO 00-33A-1001, para 3.6.m, and documented IAW TO 00-20-2, Ch 5.
- **4.2.9.2. Depot Level Assets.** Cannibalization of depot level assets may only be authorized by the Item Manager through the Det CC.
- **4.2.9.3. Depot Coordination.** Coordinate with the Depot and order replacement parts within one day of approval and repair cannibalized equipment as soon as the parts are received, but not later than 24 hours after receipt.
- **4.2.9.4. Supply Coordination.** Coordinate all cannibalization actions regarding supply issues through the Det CC, 21 LRS/LGRS, and 21 OSS/MA.
- **4.2.10. C-E Corrosion Prevention and Control.** Maintain all assigned equipment IAW AFSPCI 21-108, para 7.1.1.1.5 to minimize the effects of corrosion on C-E equipment. Site specific checklists/procedures will be accomplished IAW TO 1-1-689 Vol 1.
- **4.2.11. Maintenance Safety Requirements.** Practice maintenance safety procedures IAW AFSPCI 21-108, paras 7.1 thru 7.1.1.1.1., 7.1.1.1.5., 7.1.1.1.6., 7.1.1.1.7., and AFI 91-203, paragraph 1.12. Perform grounding, bonding, and shielding IAW State/Local or Industry standards.
- **4.2.12.** Engineering Investigation (EI) and Product Quality Deficiency Reports (PQDRs). Identify material deficiencies and trends. Depending on deficiency type, develop an EI or PQDR and submit IAW TO 00-35D-54, Ch 3. Notify SMC/SYGO via e-mail of any such deficiencies.
- **4.3. GEODSS MAINTENANCE TRAINING PLAN.** The Contractor shall develop and implement a maintenance training plan designed to keep C-E technicians proficient in GEODSS mission system maintenance requirements. Provide a copy of the training plan at contract start and updates as changes occur to the Contracting Officer. Provide a copy of the training plan and training materials to the Government upon request. Maintain individual training records for all maintenance personnel. Training records shall reflect all training received on- and off-site.

CHAPTER 5 ELECTRONICS SYSTEMS MAINTENANCE (ESM) TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE)

- **5.0. GENERAL.** The Contractor shall manage, schedule, and transport TMDE IAW TO 33K-1-100-1, TO 33K-1-100-2, and TO 00-20-14, paras 3.6 through 3.8. Perform organizational level maintenance IAW TOs 33-1-27 and 33-1-32. In addition, the Contractor shall:
- **5.1. TMDE COORDINATOR.** Appoint primary and alternate TMDE coordinators and maintain and complete host-provided coordinator training. Consult the host Precision Measurement Equipment Laboratory (PMEL) for newly acquired items to determine if the items are considered TMDE and need to be scheduled into the PMEL for service. See SA listed in Section 3, para 3.3.1, for Det TMDE support locations. The Contractor will be reimbursed under the CR CLIN for TMDE transportation and shipment costs outside of the local area. For Det 1, the local travel is defined as travel within the area of a 100-mile radius of the location. For Det 2, the local area is considered the island of Diego Garcia. For Det 3, the local area is considered the island of Maui. Maintain workload data on TMDE sent to host for calibration. See Appendix A, Report Number R3-3.2.

CHAPTER 6 LOGISTICS MANAGEMENT

- **6.0. GENERAL.** The Contractor shall direct, manage, control, acquire, issue, and safeguard Government-owned and Government-furnished supplies and equipment to assure continuous system operation. The Contractor shall:
- **6.1. SUPPLY SUPPORT.** Provide supply support for mission items. Maintain equipment accounts and supply point accountability at 100%. For Standard Base Supply System (SBSS) Transaction Identification Codes (TRIC) ISU, 1BS, MSI, TRN, REC, SHP, DFM, and TIN are authorized to support the sites. When approved by the Government and a mission asset is not available through SBSS as a national stock number, the Contractor may be directed to procure via local purchase SBSS Routing Identifier JBB at the Government's expense. Local purchase shall be procured through the Materiel Management Activity (Customer Support Liaison) when the extended cost is over \$5,000 or through reimbursable CLIN when extended cost is less than \$5,000.
- **6.1.1. Supply Assistance.** Notify the Det CC, and 21 LRS of any supply and equipment support problems that cannot be resolved at the unit level, within 24 hours of receipt of unacceptable delivery date on required item.
- **6.1.2 Establish SBSS Account:** Submit a DD Form 2875 through installation communications manager.
- **6.1.3. Management of DIFM Assets.** Complete Block IIB Repair Cycle training and accomplish a quarterly DIFM reconciliation and maintain 100% accountability for assets on-hand. Complete initial training during phase-in of contract and provide certificate to 21 LRS/LGRMMF.
- **6.1.4. Electro-Static Devices (ESD).** Maintain ESD according to AFI 23-101, para 5.3.3.4.3 and T.O. 00-25-234, para 7.5.2.1., Rule 1.
- **6.1.5. Bench Stock Management.** Manage bench stock IAW AFMAN 23-122, para 5.3.12, 5.3.12.4.1, 5.3.12.4.2, 5.3.12.15. Bench stock monitors shall complete Base-Level Supply Customer Training Block I (General Supply Indoctrination) and Block IIA (Bench Stock). Complete initial training during phase-in of contract and provide certificate to 21 LRS/LGRMCC.
- **6.1.6. Equipment Management.** Appoint primary and alternate equipment custodians. Complete Block III Computer-Based Training (CBT), COMSEC, IUID, and AF/A4LE supplemental training. Accomplish semi-annual COMSEC and annual equipment inventories and maintain 100% accountability for assets on-hand. Complete initial training during phase-in of contract and provide certificate to 21 LRS/LGRMCE.
- **6.1.7. Supply Point Management.** Manage supply points IAW AFMAN 23-122, para. 5.3.7, 5.3.7.3.1, 5.3.7.4.1, 5.3.7.5.2, 5.3.7.8.1, 5.3.7.8.2, 5.3.7.8.2.1, 5.3.7.8.2.2 and maintain 100% accountability for assets on-hand.
- **6.1.8. Customer Backorder Review, Validation, and Cancellation.** Monitor status of backorder requisitions. Validate UND A and B backorders monthly and UND C at least quarterly.

- **6.1.9.** Authorizations to Receipt for Property. Submit a letter to 21 LRS Materiel Management Activity (21 LRS.LGRSC@us.af.mil) which identifies individuals authorized to receive classified property.
- **6.1.10. Control Materiel.** Conduct annual training IAW AFI 23-101, para 10.2, 10.2.1, and 10.2.1.7 to affected personnel in regards to all DoD and AF policies to be followed in managing, issuing, receiving, storing, shipping or tracking controlled materiel.
- **6.1.11. Disposal, Demilitarization.** Property shall be turned in to Defense Logistics Agency Disposition Services when no longer authorized for Air Force use. At Det 3, local disposal is authorized if approved by Defense Logistics Agency Disposition Services.
- **6.1.12. Customer Issue Request and Processing.** Submit issue requests to the 21 LRS Materiel Management Activity (Customer Support Liaison). Forms used to submit customer requests for materiel include: AF Form 2005; DD Form 1348-6; and AF Form 601, Equipment Action Request.
- **6.1.13. SHELF-LIFE.** Establish controls for shelf-life IAW DoD 4140.27-M.
- **6.1.13.1. Shelf-Life Monitors.** Appoint shelf-life monitors to ensure they are properly trained in all aspects of shelf-life management for items in their care IAW AFI 23-101, Para 5.3.3.4.2.1.3.
- **6.2. ITEM UNIQUE IDENTIFICATION (IUID) REQUIREMENTS.** Maintain IUID requirements IAW AFI 23-101, para 5.4.3.3. See *Appendix A, Report Number R1-6.1.*
- **6.3 PRECIOUS METALS RECOVERY PROGRAM.** Maintain a precious metal recovery program IAW AFI 23-101, para 6.3.3.
- **6.4 LIMITED INSPECTOR RESPONSIBILITIES.** Limited inspector training for supply assets is provided by 21 LRS for Det 1, Det 2, and Det 3. Supply activity inspectors shall maintain limited inspector responsibilities IAW AFMAN 23-122, para 5.9.1.4.9.
- **6.5. LOCAL PURCHASE.** Procure through SBSS all parts and supplies necessary to support the mission system. For parts and supplies not available through SBSS, procure through the CR CLIN with Det CC and 21 SW/PMD approval. For all requests over \$3K, the Contractor shall provide 3 quotes to the Det CC and 21 SW/PMD for approval.
- **6.6. HAZARDOUS MATERIAL (HAZMAT).** Manage the receipt, storage, inspection and distribution of HAZMAT brought onto the Det. Maintain Material Safety Data Sheets (MSDS') and a list of all HAZMAT used at the Det, including annual use rates and final disposition (if not entirely consumed in process). For Det 3, provide MSDS' to Host Installation for items due in.
- **6.7. VEHICLE FUEL.** The Contractor shall:
- 6.7.1. Det 1 and Det 3. Obtain vehicle fuels from a commercial source on a non-reimbursable basis.
- **6.7.2. Det 2.** Identify fuel requirements and obtain vehicle fuel from the Host Installation. Obtain a "T-DoDAAC" from the Defense Logistics Agency Engery (DLAE) at www.dla.mil/energy that allows Contractor-provided vehicles to refuel on site at the Contractor's expense.
- **6.8. DIESEL GENERATORS.** See Section 3, Government-Furnished Equipment, Property, Information and Services reimbursable supplies and materials.

- **6.9. TRAFFIC MANAGEMENT.** The Contractor shall accomplish Traffic Management functions to include travel, packing, crating, shipping and receiving of all cargo consigned to and from the GEODSS Dets, as applicable.
- **6.10. TRAVEL ORDERS FOR CONTRACTOR TDY.** Submit travel orders/Letter of Identification (LOI) for non-local travel to the CO for approval. Include sufficient information for the CO to determine whether the TDY is required to fulfill PWS requirements. If traveling overseas, indicate whether the United States (US) Government rate tariff applies. Compliance with DoD Foreign Clearance Guide for clearance, passport, and immunization requirements are the responsibility of the Contractor. The Government shall reimburse the Contractor IAW Federal Acquisition Regulation (FAR) 31.205-46 for TDY/non-local travel as determined necessary for the performance of the contract. Cost for delays en route for local, staffing-related, or personal travel shall not be reimbursed by the Government. *Note: The travel CLIN is solely for TDY travel, not local travel, staffing-related, or personal travel. For Det 1, the local travel is defined as travel within the area of a 100-mile radius of the location. For Det 2, the local area is considered the island of Diego Garcia. For Det 3, the local area is considered the island of Maui.*
- **6.10.1. Travel (Det 2).** Utilize Air Mobility Command (AMC) travel in combination with commercial air. AMC shall bill the Contractor directly under AMC airlift service industrial fund procedures. AFI 24-101 can be used as a reference for AMC travel. Request travel reservations through the AMC airlift transportation office. Include a statement that commercial transportation is not available or is not satisfactorily capable of meeting the travel requirements when requesting a flight. Upon receipt of official travel orders, tickets may be picked up.
- **6.11. SHIPMENT OF GOVERNMENT PROPERTY.** Arrange for shipment of Government property IAW AFI 24-203, para 2-11, 14, and 18-19 through Host Installation transportation services or CR commercial bill of lading. Ship direct mission support assets via the most cost effective commercial service available. Priority Non-Mission Capable Supply (NMCS) shipments shall be given expeditious handling and processing. Provide services (e.g., contact Government representative) to receive/ship Government property on an as-needed basis.
- **6.11.1. Packing and Crating.** Pack and crate Government property for shipment via reimbursable commercial bill of lading. Containers shall meet carrier requirements and be of sufficient strength, design, and construction to be shipped safely without further packing. Ensure hazardous cargo is handled IAW military/commercial standards.
- **6.11.2. Pickup and Delivery.** Pick-up, deliver, protect, and process all supply and equipment items.
- **6.12. VEHICLES.** The Contractor shall provide all vehicles, vehicle support and maintenance needed in performance of PWS requirements at Contractor expense.
- **6.13. INDIVIDUAL JOB ORDERS (IJOs).** This paragraph outlines the Government's requirement for work which is not specifically identified in the PWS, but which is still within the general scope of this contract. The Government anticipates using fixed-price or CR Individual Job Orders, to be determined by the CO on a case-by-case basis. The Government shall provide a document-change request with the scope of work necessary. The Contractor shall develop initial technical and cost proposals for Government review and approval at the request of the CO. The Contractor shall perform planning, development and distribution of plans and specifications, installation instructions, bills of materials and inspection to complete the job at the work location. Provide all necessary management for Individual Job Orders to include technical management, logistics support and services, administrative support and services, engineering, drafting and similar requirements as they

occur. Individual Job Orders shall be negotiated by the CO as the action occurs. Work shall commence once a bi-lateral modification is completed and signed.

CHAPTER 7 COMMUNICATIONS OPERATIONS & MAINTENANCE (O&M)

- **7.0. GENERAL.** The Contractor shall comply with administrative communication policies and procedures, provide desktop support, enforce Cybersecurity policies, and assist Non-Classified Internet Protocol Router Network (NIPRNET), and Secret Internet Protocol Router Network (SIPRNET) Det Service Providers and Defense Information Systems Agency (DISA) with circuit troubleshooting functions as needed.
- **7.1. DESKTOP SUPPORT.** Contractor Client Support Technician (CSTs) shall perform Information Assurance Technical (IAT) Level 1 requirements for NIPRNET, SIPRNET, and maintain certifications IAW DoD 8570.01-M. Contractor CSTs shall have a successfully completed National Agency Check with Local Agency Credit Check (NACLC) investigation. The Contractor shall:
- **7.1.1. Service Disruptions.** Report problems, outages and/or deficiencies to Det CC and the 21 SW Communications Focal Point (CFP) within one hour on a 16/7 basis. Work with service provider to resolve network problems. *Maintain workload data on number and frequency of network outages.* See Appendix A, Report Number R3-3.2.
- **7.1.2. Installations and Troubleshooting.** Install client equipment and software and connect peripherals, ensuring the physical security of network backbone components. Perform client workstation diagnostics and troubleshooting.
- **7.1.3. Desktop Configuration.** Configure client-level software and provide software application assistance for commonly used office automation applications. Promote user awareness concerning unauthorized or illegal use of computer hardware and software.
- **7.1.4. User Access.** Request NIPRNET and SIPRNET user access through applicable Det Service Provider/Host.
- **7.1.5. New Requirements.** Work all new requirements (hardware and software) and support issues through the Host installation prior to installation.
- **7.1.6. Common Message Terminals (CMTs).** The Contractor shall operate and monitor Det Automatic Digital Network (AUTODIN) equipment and CMTs on a 16/7 basis. Maintain a record of all message distribution electronically.
- **7.2. MISSION SYSTEM CYBERSECURITY MANAGEMENT.** Mission System Administrators and/or Information System Security Officers (ISSOs) shall manage the cybersecurity of the mission system on a regular basis to include audit logging and reviewing, account management, incident response and other requirements IAW NIST SP 800-53 and related accreditation documents such as the System Security Plan (SSP).
- **7.2.1.** Cybersecurity Liaison (CSL). Appoint a primary and alternate CSL, or equivalent, in writing to the Det CC, Host Installation, and 21 SW Cybersecurity at the beginning of contract phase-in and as changes occur. Contractor CSL shall perform IA Manager Level I requirements and maintain certification IAW DoD 8570.01-M. Perform CSL duties IAW AFI 33-200, para 2.17 through 2.17.14.

- **7.2.1.1. Cybersecurity Training.** Review Government-provided Cybersecurity Liaison training information. Ensure all users receive Cybersecurity training IAW AFI 33-200, para 2.17.5 and 2.17.6. Maintain and administer assigned training programs IAW NIST 800-53.
- **7.2.1.2.** Cybersecurity Reporting. Report system threats, vulnerabilities, and security incidents to the Det CC and Det Network Service Provider. Comply with Det Network Service Provider reporting procedures, submit incident status reports and clean or sanitize information systems, as required.
- **7.2.1.3. User Access.** Verify user-access requirements based on user clearance, access approval, and need to know. Ensure user account management for mission systems is in accordance with GEODSS System Security Plan (SSP) and NIST SP 800-30 control AC-2.
- **7.2.1.4.** Hardware and Software Modifications. CSTs will work with SMC/SYGO on implementing any required security patches through the SAP IAVA process.
- **7.2.1.5.** Cybersecurity Awareness and Assistance Program (CSAAP). Conduct and maintain a Det CSAAP IAW AFI 33-200 paras 3.5 and 3.39. The program will also support requirements in order to support RMF for DoD IT in accordance with RMF, NIST SP 800-53 and DODI 8510.01.
- **7.2.1.6. Certification and Accreditation (C&A).** Provide information to support compliance and comply with requirements for C&A packages for the mission system as requested by SMC/SYGO. NIST SP 800-53 will be the primary document tailored for compliance assessment of the mission system.
- **7.2.2.** Classified System Emission Security (EMSEC). Review EMSEC packages annually and provide documentation for EMSEC package updates to the 21 SW/IA office. Implement required countermeasures and notify 21 SW/IA prior to any modifications to the facility affecting the EMSEC package.
- **7.2.3. Communications Security (COMSEC).** Manage, control, protect and safeguard COMSEC material, equipment and account. Coordinate requirements with the issuing Key Management Infrastructure (KMI) Operating Account Manager (KOAM).
- **7.2.3.1. Inspections.** Perform, document, and maintain results of COMSEC self-inspections IAW AFMAN 33-283, Chapter 5, para 5.4.8. In addition, perform/coordinate and document inspection results IAW NIST SP 800-53.
- **7.3. INFORMATION TECHNOLOGY EQUIPMENT (ITE) MANAGEMENT.** The Contractor shall appoint a primary and alternate Information Technology Equipment Custodians (ITEC) at the beginning of contract phase-in and as changes occur thereafter IAW AFMAN 33-153, paras 1.2.13.3 through 1.2.13.3.1.2. For Det 1 and Det 3, provide copies of the appointment letters to the Det CC and the Host Installation Equipment Control Officers (ECOs). For Det 2, provide appointment letter to the Det CC, the PAFB ECO, and 21 CS/SCOSE. Perform ITEC responsibilities IAW Government provided ITE training handbook. The Contractor shall:
- **7.3.1. ITEC Responsibilities.** Perform ITEC responsibilities IAW AFAN 33-153, para 1.2.14 through 1.2.14.13.
- 7.3.2. ITE Inventory. Conduct an annual physical inventory of all Government-furnished ITE

identified on the inventory list. Document changes and coordinate the signed inventories through the ECO within 30 calendar days of completion of the inventory. The annual inventory shall be conducted not later than 365 calendar days from the date the commander signed the most current inventory listing.

- **7.3.3. ITE Changes.** Notify the ECO when ITE is installed or received that is not listed in the inventory. Contact the ECO when ITE becomes excess to contract needs, is relocated or transferred.
- **7.3.4. ITE Requirement Submissions.** Submit end user ITE requirements for computers, laptops, monitors, and printers to 21 CS/SCOSE. Enter all projects and network requirements into the Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Infrastructure Planning System (CIPS).
- **7.3.5. ITE Cannibalization.** When cannibalization is the only option available, identify the end item to be cannibalized and request approval from the Det CCs. Cannibalization may be used to satisfy an existing requirement and to meet priority mission requirements.
- 7.4. INFORMATION ASSURANCE (IA)/CYBERSECURITY. The Contractor shall:
- **7.4.1. Cybersecurity Liaison (CSL).** Appoint a primary and alternate CSL, or equivalent, in writing to the Det CC, Host Installation, 21 SW Cybersecurity at the beginning of contract phase-in and as changes occur. Contractor CSL shall perform IA Manager Level I requirements and maintain certification IAW DoD 8570.01-M. Perform CSL duties IAW AFI 33-200, para 2.17 through 2.17.14.
- **7.4.1.1. Cybersecurity Training.** Review Government-provided CSL training information. Ensure all users receive Cybersecurity training IAW AFI 33-200, para 2.17.5, and 2.17.6. Train users on Computer Security (COMPUSEC) and system-specific security policies.
- **7.4.1.2. Cybersecurity Reporting.** Report system threats, vulnerabilities and security incidents to the Det CC and Det Network Service Provider/Host. Comply with Det Network Service Provider/Host reporting procedures, submit incident status reports and clean or sanitize information systems, as required.
- **7.4.1.3. Network Security Notices.** Comply with all service provider network security notices, such as security patches, in the timeframe specified in the notification and report back to service provider/host base of attainment. *Maintain workload data on number and frequency of network security notices requiring action.* See Appendix A, Report Number R3-3.2.
- **7.4.1.4. User Access.** Verify user-access requirements based on user clearance, access approval, and need to know IAW AFI 33-200, para 2.17.5.
- **7.4.1.5.** Hardware and Software Modifications. Review and coordinate computer software and hardware modifications through the Host installation prior to installation.
- **7.4.1.6.** Cyberspace Defense Analysis (CDA) Operations and Notice and Consent Process. Cybersecurity Liaison performs CDA responsibilities IAW AFI 10-712, para 1.5.23.1 to 1.5.23.11, and attachments 2, 4, and 5. Perform annual self-assessments using the SAC A6-2-2 checklist located in the Inspector General's Management Internal Control Toolset (MICT). Make results of inspections available for Government review upon request.
- 7.4.1.7. Cybersecurity Awareness and Assistance Program (CSAAP). Conduct and maintain a

- Det CSAAP IAW AFI 33-200 paras 3.5 and 3.39.
- **7.4.1.8. NIPRNET/SIPRNET Certification and Accreditation (C&A).** Provide information to update Host Installation C&A packages as requested.
- **7.4.2.** Classified System Emission Security (EMSEC). Review EMSEC packages annually, ensure EMSEC packages are updated every three (3) years, and provide documentation for EMSEC package updates to 21 SW Cybersecurity and host base Cybersecurity office. Implement required countermeasures and notify 21 SW Cybersecurity and host base Cybersecurity office prior to any modifications to the facility affecting the EMSEC package.
- **7.4.3. Communications Security (COMSEC) (Det 1 & 2 Only).** Manage, control, protect and safeguard COMSEC material, equipment and account. Coordinate requirements with the issuing KOAM.
- **7.4.3.1. KMI Operating Account Agent (KOAA) (Det 1 & 2 Only).** Appoint a primary and alternate KOAA in writing to the issuing KOAM, Det CC, and 21 SW Cybersecurity IAW AFMAN 33-283 para 5.4 at the beginning of contract phase-in and as changes occur.
- **7.4.3.1.1.** Responsibilities (Det 1 & 2 Only). Manage Secure Voice Devices IAW AFMAN 33-283, para 5.5 and Chapter 16 and COMSEC Account procedures of controlling, safeguarding, using, and destroying of COMSEC materials IAW AFMAN 33-283, Chapters 5, 7, 10 and 11 (FOUO) and using any COMSEC instructions provided by the supporting COMSEC account.
- **7.4.3.1.2.** Cryptographic or Formal Cryptographic Access (FCA) (Det 1 & 2 Only). Request access for Contractor personnel meeting the requirements, IAW AFMAN 33-283 para 2.14.10 and table 4.1 into the Cryptographic Access Program (CAP) by completing and submitting AFCOMSEC Form 9 granting FCA IAW AFMAN 33-283 Chapter 6 and attachment 6.
- **7.4.3.1.2.1.** Crypto Keying and Control (Det 1 & 2 Only). KOAAs shall attend issuing KOAM Training annually IAW AFI 33-283, para 4.1.10. Maintain training documentation until relieved as a KOAA.
- **7.4.3.1.2.2. Det 2 COMSEC Local Element.** Perform as a local element KOAA of the Det 2, SOPS, COMSEC account.
- **7.4.3.1.2.3.** Courier Duties (Det 1 & 2 Only). Provide required courier for crypto keying materials. Couriers must possess a DD Form 2501 to transport from the Det to the issuing KOAM.
- **7.4.3.1.2.4. Keying and Storage (Det 1 & 2 Only).** Provide crypto keying and shift-change verification for United States Air Force (USAF) only cryptographic equipment. Keep keying materials secured in a Government-provided GSA-approved safe.
- **7.4.3.1.3. Inspections (Det 1 & 2 Only).** Perform, document, and maintain results of COMSEC self-inspections IAW AFMAN 33-283, Chapter 19, and attachment 18.
- **7.4.3.1.4. Deviation Reports (Det 1 & 2 Only)**. Complete reports involving physical, cryptographic, and personnel COMSEC deviations IAW AFMAN 33-283, Chapter 9 and submit to the KOAA.
- **7.4.3.1.5.** Receipt And Return (Det 1 & 2 Only). Pick up and deliver COMSEC material from the supporting issuing COMSEC account.

- **7.4.3.2. Documentation (Det 1 & 2 Only).** Establish, maintain and dispose of COMSEC documentation IAW AFMAN 33-283, Attachment 8 (FOUO), AFMAN 33-363, and as directed by the issuing KOAM.
- **7.5. BASE COMMUNICATIONS AND INFORMATION SYSTEMS OFFICER (CSO).** Det 3 shall perform all CSO duties laid out in AFMAN 33-145 Chapter 4 and all duties in MPTO 00-33A-1108 (AFIN Voice Systems Management). For Det 1 and Det 2, follow the host base CSO instructions for customers and tenant units.
- **7.6. LONG-HAUL CIRCUIT OUTAGES.** Report long-haul circuit outages to the Host Installation and provide troubleshooting support to restore circuit. *Maintain workload data on long-haul circuit outages and required after hours support.* See Appendix A, Report Number R3-3.2.
- **7.6.1. After-Hours Support.** Provide Primary and Alternate points of contact (POCs) in writing to the Host Installation for after-hours support at contract start and updates as changes occur. Upon direction from Host, respond to outages within two hours of notification.
- **7.6.2. Status Reporting.** Notify Det CC of outages and provide daily status updates until circuit is restored.
- **7.6.3.** Land Mobile Radio (LMR) Management (Det 3). Manage LMR and cellular telephone assets, equipment and data IAW AFI 17-210, Radio Management, dated 26 May 2016, para 3.9 through 3.10. Note: LMR equipment at Det 3 is maintained by the Host Installation.

CHAPTER 8 ENVIRONMENTAL MANAGEMENT

- **8.0. GENERAL.** The Contractor shall comply with all federal, state, local and Host Installation environmental standards, policies and requirements as specified below.
- **8.1. ENVIRONMENTAL SERVICES.** The Contractor shall:
- **8.1.1.** Environmental Compliance Contact (ECC) for Host Installation. Appoint in writing (name, position, office symbol, and telephone number) primary and alternate ECCs at each Det to comply with Host Installation environmental management requirements and to address environmental issues. Provide copies of the appointment letters to the Host Installation Environmental Management Office (EMO), Det CC, 21 CES/CEIE, and 21 SW/PMD at the beginning of contract phase-in and as personnel changes occur.
- **8.1.2. HAZMAT Program.** Comply with Host Installation Hazardous Material Management Program. See Chapter 6, para 6.6 for HAZMAT requirements.
- **8.1.3.** Environmental Requirements and Funding. Identify all environmental and hazardous waste requirements (including required funding), in writing, to the Det CC and Host Installation EMO.
- **8.1.4. Pollution Incident Reporting.** Report all incidents to the Det CC, Host Installation EMO and 21 CES/CEIE, in writing, within one working day of initial discovery of incidents.
- **8.1.5. Spill Response.** Update and maintain a site specific spill response plan or ensure they are included and in-compliance with the host installation spill response plan.
- **8.1.6.** Emergency Response GOI. (Det 1 and 2) Update and maintain Det Emergency Response GOI for emergency response to pollution incidents and uncontrolled releases to the environment. Submit changes to the Det CC for acceptance with a copy to 21 CES/CEIE and the Host Installation EMO. (Det 3) report all pollution incidents and uncontrolled releases to Det CC, 21 CES /CEIE, and host installation EMO, complying with host Installation Emergency Management Plan (IEMP).
- **8.1.7. Project Planning Requirements.** Initiate local National Environmental Policy Act (NEPA) requirements on behalf of the Det CC or assist the project proponent to initiate them. Ensure all planning requirements are fulfilled prior to undertaking a project. Complete Section 1 of AF Form 813, Request for Environmental Impact Analysis (or equivalent), for Det CC signature and submit to the Host Installation EMO.
- **8.1.8. Environmental Reports and Technical Information.** Submit copies of all Environmental assessment reports received, and provide requested environmental technical information to the Det CC, 21 CES/CEIE and 21 AMDS/SGPB.
- **8.1.9. Meetings and Training.** Contractor ECC shall attend required Host Installation environmental meetings and training courses and maintain documentation of attendance. Disseminate ECC information (environmental compliance, pollution prevention, spill response,

CHAPTER 9 CIVIL ENGINEER (CE)

- **9.0. GENERAL.** The Contractor shall operate, maintain, and repair real property (RP) and real property installed equipment (RPIE) IAW manufacturer's recommendations, applicable industry codes, federal, state and local regulations, Host Installation policies and procedures, and as specified below.
- **9.1. MAINTENANCE (NON-REIMBURSABLE).** The Contractor shall provide all materials, equipment, parts, labor, and associated costs for all maintenance that is foreseeable and can be forecasted to retain RP and RPIE IAW manufacturers' recommendations in support of Recurring Work Program (RWP).
- **9.2. REPAIR (REIMBURSABLE PARTS AND MATERIALS).** The Contractor shall restore a failed or failing RP or RPIE so it may be used effectively for its designated purpose. It further consists of overhauling, reprocessing, or replacing equipment, or materials not included in maintenance. Restoring or replacing components damaged by fire, storm, explosions, or other disasters beyond the Contractor's control shall be subject to separate contractual action.
- **9.3. CE O&M (DET 1 & 2).** The Contractor shall perform organizational and intermediate level maintenance and repair. Maintain capability to respond to emergency conditions 24/7. Respond to emergency conditions within two hours of notification and eliminate emergency condition within 24 hours. Document and forward depot level maintenance requirements to the Det CC and 21 CES/CENP. In addition, the Contractor shall:
- **9.3.1.** Real Property Installed Equipment (RPIE). Maintain inventory listings of all RPIE. For Det 1 and Det 2, operate, maintain, and repair all RPIE IAW manufacturers' recommendations. For Det 3, operate RPIE and report all RPIE repair to host. Use host required reporting to request RPIE repair in GEODSS portion of building 1, GEODSS towers 14100, 14101 and 14102.
- **9.3.1.1.** Real Property Maintenance and Minor Repair Requests. (Det 1 and Det 2). Submit work requests before performing any facility maintenance and repairs required to preserve or restore real property to the Det CC and Host Installation.
- **9.3.1.2. Modifications or Alterations.** Obtain prior approval of the Det CC and Host Installation before making modifications or alterations to real property.
- **9.3.1.3. Operation and Maintenance Manuals.** Maintain and update manuals for all RPIE and Power Conditioning and Continuation Interface Equipment (PCCIE).
- **9.3.1.4. Documentation.** Maintain a log of all RPIE and PCCIE modification, maintenance, and repair actions performed. *Maintain workload data on all RPIE and PCCIE modifications, maintenance, and repair actions performed.* See Appendix A, Report Number R3-3.2.
- **9.3.1.5.** Warranty and Guarantee Program. Establish, document, and maintain a warranty and

- guarantee program on RPIE to insure that all warranties are enforced and no additional funds are expended for covered repairs.
- **9.3.2. Recurring Work Program (RWP).** Implement, document, and maintain a RWP to provide for the preventive maintenance of all RPIE and PCCIE IAW manufacturers' recommendations.
- **9.3.3.** As-Built RP and RPIE Record Drawings (Det 1 and Det 2 Only). Maintain and update drawings within six months after completion of work. Prepare and submit drawings or ensure drawings are prepared and submitted utilizing Automated Computer Aided Design (AutoCAD) release or version of calendar year 2000 or newer.
- **9.3.3.1. Red-Lined Drawings.** Provide red-lined drawings to Host Installation within 60 calendar days of project completion.
- **9.3.3.2. Master Index.** Maintain a master index of all drawings.
- 9.4. REAL PROPERTY MANAGEMENT PROGRAM: The Contractor shall:
- **9.4.1. Backflow Prevention Program (Det 1 and Det 2).** Develop a cross-connection Control and Back-Flow Prevention Program IAW AFI 32-1067 para 3.3.4., 3.3.4.2., and 3.3.4.5., and 3.3.4.7. through 3.3.4.9.
- **9.4.2.** Industrial Water Testing and Treatment (Det 1 and Det 2). Provide sampling and analysis/test services to meet the manufacturer's recommendations. Maintain records of test types, results, date and time, and name of tester.
- **9.4.3.** Heating, Ventilation, and Air Conditioning (HVAC) Systems (Det 1 and Det 2). Heat and cool mission facilities to sustain mission availability requirements.
- **9.4.4. Key Control and Management (Det 1 and Det 2).** Provide key control and management. Update and maintain a master inventory listing of all Det keys. Implement and maintain a key management program for initial key issue, key turn-in, loss and temporary issue.
- **9.5. POWER (DET 1 AND DET 2).** The Contractor shall maintain continuous power through a combination of commercial- and diesel-generated electrical power to meet the Det mission requirements. The Contractor must be capable of maintaining backup diesel generator electrical power for up to two weeks in the event of catastrophic loss of commercial power. The Contractor is not responsible for funding fuel to maintain diesel-generated electrical power. Notify Det CC before fuel level drops below two weeks supply.
- **9.5.1.** Generator and Automatic Transfer Switch (ATS) Maintenance (Det 1 and Det 2). Operate, maintain, and repair diesel power generating equipment and ATS IAW manufacturer's recommendations. Utilize AF IMT 719 to document all maintenance and repair. Inspect and test IAW Engineering Technical Letter (ETL) 13-4 para 15.1 through 15.4.
- **9.5.2.** Generator Refueling Plan (Det 1 and Det 2). Develop written prioritized refueling plan and requirements to support RPIE generator operation during extended power outages of not less than seven days. Annually coordinate and review plan with logistics readiness squadron or commercial supplier.
- **9.6. UNINTERRUPTIBLE POWER SUPPLY (UPS).** Maintain, operate, and make user-level repairs on UPS systems IAW manufacturer's recommendations. Contact AF UPS contractor for all higher level repair/maintenance.

- **9.6.1. Det 1 and Det 3.** Coordinate all Preventive Maintenance (PM) and system malfunctions with the UPS maintenance Contractor and Det CC. Maintain records of all tests and inspections.
- **9.6.2. Det 2.** Coordinate PM and system malfunctions with AFSPC/A7OI (PCCIE team), CES/CENP, and Det CC. Maintain records of all tests and inspections.
- **9.7. CRITICAL UTILITY OUTAGES.** The Contractor shall maintain a reliability/availability standard of no more than 535 minutes of total annual downtime due to mission utility failure. Submit Utility Outage and Status Reports and report monthly reliability/availability in the site QSR. See Appendix A, Report Number R1-9.1.
- **9.8. UTILITY CONTINGENCY PLAN.** The Contractor shall implement and maintain a Utility Contingency Plan for essential utility supply and distribution systems to include electricity, water, air conditioning, and fuel.
- **9.9. LIGHTNING PROTECTION AND FACILITY GROUNDING SYSTEM (DET 1 & DET 2 ONLY).** For Det 1 and Det 2, the Contractor shall inspect, test, maintain, and repair installed lightning protection and facility grounding systems IAW AFI 32-1065, all except Atch 5. Contractor shall schedule maintenance IAW AFI 32-1065 Table 1, Blocks 3 and 4 and ensure personnel performing inspection, testing, maintenance, and repair are commercially certified on Lightning Protection Systems.
- 9.10. ENGINEERING SERVICES: The Contractor shall:
- **9.10.1.** Comprehensive Plan Inputs. Provide five years project work forecast information, coordinated with the applicable Host Base Comprehensive Plan to the Det CC to assist future project funding. See Appendix A, Report Number R1-9.2.
- **9.10.2. Construction and Design Review Activities.** Provide technical and functional reviews of equipment, facility system modifications, and new construction designs and provide written responses to the appropriate agency within eight working days of receipt.
- **9.10.2.1. Participation in Design Reviews and Pre-Construction Meetings.** Attend design reviews and pre-construction meetings and provide comments to the Government project manager IAW coordinated project schedule.
- **9.10.2.2.** Coordination. Coordinate with the Government project manager at the 35%, 65%, 95% and 100% project completion level. Coordinate and accomplish actions required to complete project design and construction other than Host Installation projects.
- **9.10.2.3. Technical Support.** Provide technical support and answer questions during Det visits.
- **9.11. FIRE PROTECTION.** The Contractor Shall:
- **9.11.1. Fire Protection Systems (Det 1 and Det 2).** Operate, maintain, repair, test, and inspect fire protection systems IAW the latest edition of the Uniform Facilities Criteria (UFC) 3-601-02. The Contractor shall:
- **9.11.2. Fire Extinguisher Maintenance.** Identify requirements in writing, coordinate with the Det CC and submit to the Host Installation CE.

- **9.11.3. Fire Prevention.** Comply with Host Installation fire prevention policies.
- **9.11.4.** Fire Prevention and Fire Extinguisher Training. Ensure all Contractor personnel receive fire prevention and fire extinguisher training within 30 calendar days of arrival and annually thereafter.
- **9.11.5.** Fire Hazards. Correct fire hazards identified by fire inspectors during building inspections.
- **9.12. ROADS, PARKING, PAVED AREAS, AND GROUNDS.** The Contractor shall request roads and grounds maintenance and repair in writing, coordinate with the Det CC and submit to the Host Installation CE.
- **9.13. PEST MANAGEMENT (DET 1 AND DET 2).** The Contractor shall request entomology support in writing, coordinate with Det CC and submit to the Host Installation CE.
- **9.14. SNOW REMOVAL AND ICE CONTROL (DET 1 AND DET 3).** The Contractor shall provide safe ingress and egress at the GEODSS buildings. Identify all snow removal and ice control requirements in writing, coordinate with the Det CC and submit to the Host Installation CE.
- **9.15. SANITATION AND CLEANLINESS.** The Contractor shall maintain areas in a clean, orderly and sanitary condition to include periodic dusting and vacuuming. *Note: There are no Government-furnished custodial services available.* The premises shall be kept free of accumulations of waste material and/or debris. Areas shall be subject to inspection by Government fire, safety, environmental and health personnel. The Contractor shall correct any discrepancies identified resulting from a failure to maintain acceptable sanitation and cleanliness.
- **9.16. REFUSE COLLECTION.** For Det 1 and Det 2, the Contractor shall remove refuse from the GEODSS facilities and place in dumpsters provided by the Host Installation. Identify changes in refuse collection and disposal requirements to the Host Installation CE. For Det 3, deposit trash at designated pick-up points.
- **9.17. CORROSION CONTROL (DET 1 AND DET 2)** The Contractor shall establish, update and maintain a corrosion prevention and control program IAW AFI 32-1054, paras 3.4., 4.2., 4.4.5., and 4.5. Maintain and update records.
- **9.18. ENERGY CONSERVATION.** The Contractor shall comply with Host Installation policies and procedures.
- **9.19. EMERGENCY MANAGEMENT.** The Contractor shall comply with Host Installation Emergency Management (previously known as Disaster Preparedness) policies and procedures.

CHAPTER 10 OCCUPATIONAL HEALTH

- **10.0. GENERAL.** The Contractor shall comply with applicable federal, state, and local Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA) and Host Installation regulations/standards.
- **10.1 OCCUPATIONAL AND ENVIRONMENTAL (OEH) COORDINATOR.** The Contractor shall appoint in writing a central point of contact for OEH issues at contract start and within five calendar days of any changes, to the 21 AMDS Bioenvironmental GSU Site Manager.
- **10.2. OUTSIDE AGENCY INSPECTIONS/VISITS.** The Contractor shall notify 21 AMDS Bioenvironmental GSU Manager within one business day of being notified of any federal, state or local agency inspections or visits related to Occupational and/or Environmental Health matters. Provide any documentation related to these visits to the 21 AMDS Bioenvironmental GSU Manager within three business days after receipt.

CHAPTER 11 INDUSTRIAL, PHYSICAL, AND OPERATIONAL SECURITY

- **11.0. GENERAL.** The Contractor shall operate, maintain and safeguard assets, information, and Protection Level (PL) resources at the GEODSS Sites. These operating sites are USAF PL 4 resources designated as controlled areas IAW AFI 31-101 (FOUO), Figure 9.3. The Contractor shall:
- **11.1. INDUSTRIAL/INFORMATION SECURITY.** Implement and perform all required industrial/information security functions and actions IAW the certified DD Form 254 and DoD 5220.22-M, to minimize infractions and to ensure zero security incidents resulting in violations.
- **11.2. VISITOR GROUP SECURITY AGREEMENT (VGSA).** Enter into a VGSA as an integrated visitor with each of the 20 SPCS/ Det CCs IAW the DD Form 254 and AFI 16-1406.
- **11.3. SECURITY EQUIPMENT.** Maintain physical security aids such as security fencing, lighting, entry control points, intrusion detection systems, security containers, and locks within the Contractor's area of responsibility at each Det as specified below. The Contractor shall respond if intrusion detection system goes down or alarm is activated and remain on site until system is restored.
- **11.3.1. Det 1 Security Equipment.** Maintain and repair automated gate, cypher locks, lighting, entry control points, video surveillance system, proximity locks, intrusion detection system, and all locks. The Contractor shall provide all parts, equipment, material, and labor. The Contractor shall physically respond within two hours after notification of an alarm failure or activation by the host.
- **11.3.2. Det 2 Security Equipment.** Notify the Host Installation if security equipment fails or becomes inoperable. The Contractor shall physically respond within two hours after notification of an alarm failure or activation by the host.
- **11.3.3. Det 3 Security Equipment.** Notify Det 15 AFRL if security equipment fails or becomes inoperable. The Contractor shall physically respond within 3 hours after notification of an alarm failure or activation by the host.
- **11.4. Visit Requests.** Complete visit requests IAW DoD 5220.22-M, Ch 6, AFI 16-1404, para 5.1.5, DoDM 5200.01 V3, Enc 2, Part 7 and Defense Security Service (DSS) procedures governing use of the Joint Personnel Adjudication System (JPAS). Follow British Indian Ocean Territory (BIOT) area clearance procedures for obtaining visit approval to Diego Garcia. Current procedures require 30 days' notice to process an area clearance letter. Maintain workload data on number and frequency of visit requests processed. *See Appendix A, Report Number R3-3.2.*
- **11.5. UNESCORTED ENTRY.** Contractor personnel requiring unescorted entry to USAF controlled areas must have a minimum of a favorably completed National Agency Check (NAC), interim, or final secret security clearance IAW AFI 31-101 (FOUO), para 7.2.

- **11.5.1. Controlled Area Badges.** Coordinate security requirements with the host installations. Visitors to Det 1 and Det 2 shall obtain badges issued by Contractor. For Det 3, visitors shall obtain badges from Det 15 (Host). For Det 3, control, display, and dispose of controlled area personnel badges IAW AFI 31-101 (FOUO), paras 7.2 7.5.3.3 and 7.15.2.
- **11.5.2. Physical Security Training.** Conduct initial physical security indoctrination and annual refresher training for all Contractor personnel IAW AFI 31-101 (FOUO), para 8.3.3.
- **11.5.3. Escorted Entry.** Escort personnel without unescorted entry authorization that are performing contracted functions related to the GEODSS O&M requirements. *Maintain workload data on number of personnel escorted. See Appendix A, Report Number R3-3.2.*
- **11.6. FORCE PROTECTION.** Participate in host installation force protection program to include FPCON measures, ID checks, sign postings and tasked random antiterrorism measures (RAMS).
- **11.7. OPERATIONS SECURITY (OPSEC).** The Contractor shall appoint an OPSEC POC to track and report Contractor completion of Government-provided OPSEC training. The Contractor shall be familiar with the Detachment critical information list (CIL) and ensure critical/sensitive information is protected from disclosure IAW AFI 10-701, paras 1.4.17.1 through 1.4.17.2. Training includes initial training and other training as required (up to four occurrences annually). OPSEC Training is provided via ADLS and the Det CCs as required. Report training completion to the Det CC. Provide copy of the OPSEC POC appointment to the Det CC.
- **11.7.1.** Electronic Reporting and Communications. At locations where the contractor does not have access to a .mil network, the contractor shall establish email digital signature and encryption capability as necessary through the DoD PKI Encryption Certificate Authority (ECA) program or a DoD approved PKI. The contractor shall utilize digital signature and encryption capability as necessary during communications and to satisfy the Air Force requirement for encrypted electronic transmission and receipt of Critical Information, information designated as FOUO, or other Controlled Unclassified Information (CUI).
- **11.8. INFORMATION SECURITY (STANDARD FORM 311).** The Contractor shall assist in the SF 311 sample counting period by counting all their derivate classification decisions and provide their data IAW AFI 16-1404, Chapter 11 to the Detachment Commander, when requested.

SECTION 1 GEODSS SERVICES REQUIREMENTS

CHAPTER 12 KNOWLEDGE OPERATIONS MANAGEMENT

- **12.0. GENERAL.** Perform Records Management requirements, forward Freedom of Information Act (FOIA) and Privacy Act (PA) requests to appropriate channel, and manage PA and For Official Use Only (FOUO) records as specified below and IAW AFMAN 33-363, para 6.4.
- **12.1. RECORDS MANAGEMENT.** Maintain records provided to the Contractor at contract start and generated by the Contractor in performance of PWS requirements IAW AFI 33-322, paras 5, 6.2, 6.5, and 6.6. Maintain Government records system in place for continued preservation of mission requirements. The Contractor shall:
- **12.1.1. Records.** Create, maintain, and dispose of records IAW AFRIMS Disposition Schedule, AFMAN 33-363 and AFI 33-364. Note: File e-records IAW AFMAN 33-363, paragraph 6.1.1.4.9.

12.1.2. Reserved

- **12.2. FREEDOM OF INFORMATION ACT (FOIA) AND PRIVACY ACT (PA) REQUESTS.** The Contractor shall forward FOIA requests of Government records and PA requests received to 21sw.foia.pa@us.af.mil. Inform the Det CC of all FOIA requests of Government records and PA requests forwarded to 21sw.foia.pa@us.af.mil.
- **12.3. PROTECTION OF PRIVACY ACT (PA) AND FOR OFFICIAL USE ONLY (FOUO).** The Contractor shall protect PA records IAW Privacy Act of 1974, and FOUO IAW AFI 16-1404, paras 1.2 through 1.2.3 and 4.2.2 through 4.2.3 and the DD Form 254.
- **12.3.1. Privacy Act and Civil Liberties Training.** Complete training IAW AFI 33-332, para 4.6.7.4 for PA and AFI 33-332 para 7.6.1 for Civil Liberties.

SECTION 1 GEODSS SERVICES REQUIREMENTS

CHAPTER 13 CONTRACT TRANSITION

- **13.0. GENERAL TRANSITION GOALS.** Perform a smooth and orderly transition with all parties to include the Successor, the Incumbent and the AF Transition Team (AFTT) while ensuring continued service. Complete all activities necessary to ensure a successful transition.
- **13.1. CONTRACT TRANSITION PERIOD.** The Government shall define the contract transition period.
- **13.2. JOINT INVENTORY.** Participate in joint physical inventories of documentation, property, equipment, materials, supplies, and records in each functional area. See Chapter 12, para 12.1 for additional records management requirements. The AFTT shall monitor all inventories. Contractors shall document and resolve all discrepancies through the AFTT and CO prior to completion of the transition effort by the Contractors and provided to the AFTT.

13.3. PHASE-IN.

- **13.3.1. Transition Plan and Activities.** Provide a Transition Plan 30 days after contract award to the CO and Government PM that addresses all actions necessary to ensure a seamless transition. Coordinate with the Incumbent, the AFTT and the CO, before any transition efforts begin. Identify any conflicts to the CO.
- **13.3.2. Joint Inventory.** The Contractor shall accomplish a joint inventory in conjunction with the incumbent and the AFTT documenting property, serviceability and any discrepancies in each PWS functional area. Document and resolve all discrepancies. At a minimum, the Contractor shall ensure the following is accomplished:
- **13.3.2.1.** Classified Material. Jointly inventory and establish accountability for the transfer of classified materials. The Contractor shall ship the discs for N-CSDS to NSA for destruction IAW the Classified Material Conversion (CMC) procedures. The discs shall be wrapped and mailed IAW DoDM 5200.01, Vol 3. The discs shall be sent by registered mail or FEDEX to the following address: National Security Agency, Attn: CMC-Degaussing Suite 6875, 9800 Savage Road, Fort George G. Meade, MD 20755-6875.
- **13.3.2.2. Records.** Jointly conduct an inventory of all records being transferred from the previous contract.
- **13.3.2.3. Defense Courier Service (DCS).** Prepare and forward DCS Forms 10 dated the same day as the combined inventory. Keep copies of all completed DCS Forms 10 on file.
- **13.3.2.4. Transfers.** Transfer all property, equipment, materials, supplies and data no later than three days prior to start of new contract.
- **13.3.3. Inspections.** The Contractor shall:
- **13.3.3.1. COMSEC Inspection.** Perform a combined COMSEC inventory, with the Incumbent, of all COMSEC material and equipment, and submit the Special Listing signed by both parties to the Communications Officer one day prior to contract start. Change combinations on all safes

containing COMSEC material on the same day as the combined inventory.

- **13.3.3.2. EMSEC Inspection.** Jointly conduct an EMSEC inspection of all areas, equipment, and signal lines that are used to handle or process classified information. Annotate discrepancies in writing and submit a copy signed by both parties to the AFTT.
- **13.3.4.** Reporting Requirements. Jointly develop and prepare required reports (if any) during the last 30 days of transition prior to the assumption of maintenance and support responsibilities by the Successor.
- **13.3.5. Personnel Identification.** For Contractor personnel without a Common Access Card, ensure the identification card is issued prior to assignment.
- **13.4. PHASE-OUT.** The Contractor shall provide continuous service while the contract is transitioning. Complete all activities necessary to ensure a successful transition. When necessary, allow the Successor access to any system for over-the-shoulder observation and hands-on training, to include use of the SOI software, as specified in the transition plan. Provide a phase-out plan, upon request of the CO.

SECTION 2 GEODSS SERVICES SUMMARY

- **2.0. GENERAL.** The Services Summary (SS) is a list of Performance Objectives and Performance Thresholds that shall be verified by Government personnel IAW the Quality Assurance Surveillance Plan (QASP). Each Performance Objective represents a significant task as identified in the PWS by the Government at the time of contract award. The Performance Threshold represents the minimum acceptable level of performance. The Performance Objectives and Performance Thresholds represent the most significant tasks of this contract and do not excuse the Contractor from performance of other responsibilities identified in this PWS.
- **2.1. PERFORMANCE OBJECTIVES/THRESHOLDS.** Performance ojbectives may be added or deleted and Performance Thresholds raised or lowered during the course of this contract. For example, repeated Contractor performance deficiencies in non-critical areas may force the related requirement to become a Performance Objective in the SS. Conversely, changes in technology or mission requirements may eliminate SS objectives. An illustration would be the integration of a new electronic automated system making obsolete the PWS-required manual system.

Chapter 2 – Sensor Operations and Support					
Performance Objective PWS Performance Threshold Reference					
SOI Taskings. SOI-tasked objects.	Para 2.1.2.2 And 2.1.2.2.1	Complete 100 percent of objects tasked each month. See Note in para 2.1.2.2.			

Chapter 2 – Sensor Operations and Support					
Performance Objective PWS Performance Threshold Reference					
Sensor Contractor-Controlled Availability (A _{cc}). Maintain an overall sensor A _{cc} .	Para 2.1.7.1.	$A_{\rm cc}$ each calendar month of not less than 99%.			

Chapter 4 – Communications-Electronics (C-E) Maintenance Management					
Performance Objective PWS Performance Threshold					
	Reference				
Equipment Status Reporting (ESR).	Para 4.2.3.	Updates are made as they occur.			
Ensure equipment status updates are					
entered into the IMDS ESR Subsystem.					

Chapter 4 – Communications-Electronics (C-E) Maintenance Management					
Performance Objective	PWS Reference	Performance Threshold			
IMDS Data Entries. Accurately input all MDC data into IMDS in a near real-time basis.	Para 4.2.4.1.	MDC data shall be entered into IMDS with 95% initial accuracy, 98% accuracy within 72 hours and 100% accuracy within 5 days.			

SECTION 2 GEODSS SERVICES SUMMARY (cont.)

Chapter 5 – ESM and TMDE					
Performance Objective	PWS Reference	Performance Threshold			
TMDE. Maintain a TMDE program that ensures all TMDE is available when needed, and is repaired, calibrated, and certified.	Para 5.0.	No failed TMDE inspections.			

Chapter 7 – Communications Operations & Maintenance (O&M)					
Performance Objective PWS Performance Threshold Reference					
Communications Security (COMSEC). Manage, control, protect and safeguard COMSEC material, equipment and accounts. Coordinate requirements with the issuing KOAM.	Para 7.4.3	No Reportable COMSEC incidents due to contractor error or failure to follow established guidance. Additionally, no major or more than 2 minor findings during a KOAM inspection.			

Chapter 11 – Industrial, Physical and Operational Security					
Performance Objective	PWS Reference	Performance Threshold			
Industrial/Information Security. The Contactor shall implement and perform all required industrial/information security functions and actions IAW the certified DD Form 254 and DoD 5220.22-M, to minimize infractions and to ensure zero security incidents resulting in violations.	Para 11.1	Zero security incidents resulting in violations.			

SECTION 3 GOVERNMENT-FURNISHED EQUIPMENT, PROPERTY, INFORMATION AND SERVICES

- **3.0. GENERAL.** The Government shall provide adequate facilities; utilities; official telephone service; diesel fuel, supplies, and materials for generators; systems and associated software and desktop computers to perform the services described in the PWS.
- **3.1. GOVERNMENT-FURNISHED EQUIPMENT AND PROPERTY.** Existing individual toolboxes, tools, and ground handling equipment shall be provided at contract start. Listings of inventories shall be provided as Government-furnished information (GFI) during the proposal process and shall be turned over to the Contractor after contract award to update and maintain as changes occur. When required items become unserviceable, they shall be replaced at Contractor's expense. At that point, the Contractor purchased items become the property of the Contractor. Properly dispose of unserviceable items.
- **3.1.1.** Items such as appliances, furnishings, or other equipment shall be made available at the discretion of the Government and are not guaranteed to be provided through the life of the contract.
- **3.1.2.** Supplies for and repair of the above items shall be at the Contractor's expense and shall not be reimbursed by the Government.
- **3.1.3.** The Government shall retain ownership of specialized and mission-unique tools and equipment identified in inventories. The Contractor is not responsible for replacing such tools and equipment; however, the Contractor shall maintain them using the CR CLIN.
- **3.2. GFI.** Information provided by the Government shall be maintained and updated by the Contractor as specified below.
- **3.2.1. Technical Documentation.** Maintain technical documentation resident at each of the GEODSS Dets and provided in the technical library at contract start. Maintain the list of all technical documentation. See Appendix A, Report Number R3-3.1.
- **3.2.2. Workload Data.** Use Contractor's format to document workload data or number of occurrences and frequency. See Appendix A, Report Number R3-3.2.
- **3.3. GOVERNMENT-FURNISHED SERVICES.** The Government provides services as identified below.
- **3.3.1. Support Agreements (SAs).** Host Installation services for communications, civil engineering, environmental, police, occupational health, supply, TMDE, and security are provided to the Dets based on the following SAs:

SECTION 3 GOVERNMENT-FURNISHED EQUIPMENT, PROPERTY, INFORMATION AND SERVICES (cont.)

Det 1	SA #W91VB1-13169-036 (Support Agreement between US Army White
	Sands Missile Range and Det 1)
	SA #W81C39-14142-036 (Support Agreement between US Army White
	Sands Missile Range and Det 1)
	SA #FB4469-07630-001 (Support Agreement between 377 th Air Base
	Wing (377 th ABW), Kirtland AFB and Det 1)
Det 2	SA #N61076-121106-008-ISA (Support Agreement between the US Navy
	Region Japan and Det 2)
	SA #FB5270-00243-416 (Support Agreement between the 18 th Wing,
	Kadena AB, Okinawa, Japan and Det 2)
Det 3	SA #FY1955-14265-001 (Support Agreement between Det 15, Air Force
	Research Laboratory (AFRL) USAF and Det 3)

The Contractor shall comply with Host Tenant requirements indicated by "the receiver will" and IAW Host Installation Plans, Policies and Procedures listed in Appendix C.

- **3.3.2. Funds Management.** The Government shall provide management and control of the stock fund operating programs through the Host Installation supply stock fund manager or the command stock fund manager. The Government shall develop the annual operating program and allocation of ordering authority.
- **3.3.3. Travel (Det 2).** The Contractor is authorized to use the Government Traffic Management Office (TMO) contracted ticketing office and AMC flights for Contractor personnel travel. The Government shall not reimburse the Contractor for other than official travel approved by the CO. See Chapter 6, para 6.10.1 for additional travel requirements.
- **3.3.4. Destruction of Classified Waste And Material.** The Government shall provide means for the destruction of classified waste and materials.
- **3.3.5.** Billeting (Det 2). The Government shall provide billeting for Contractor personnel at no charge to the Contractor. Laundry facilities are available in billeting (also at no charge to the Contractor).
- **3.3.6. Det 2.** The Government shall not reimburse the Contractor for any of the expenses associated with the following services:
- **3.3.6.1. Transportation.** The Government shall provide transportation of Contractor-provided vehicles, administrative supply items, materials, and equipment. Use Government bill-of-lading.
- **3.3.6.2. Unaccompanied Baggage.** Upon request, the Government shall transport Contractor personnel unaccompanied baggage up to 330 lbs (shipped in freight) for the initial trip from the Continental United States (CONUS) to Diego Garcia and return trip from Diego Garcia to CONUS on completion of assignment.
- **3.3.6.3. Vehicle Maintenance.** The Host Installation shall make vehicle maintenance services available for Contractor-owned vehicles at the Contractor's expense.
- **3.3.6.4. Exchange Privileges.** The Government authorizes use of exchange facilities.

SECTION 3 GOVERNMENT-FURNISHED EQUIPMENT, PROPERTY, INFORMATION AND SERVICES (cont.)

- **3.3.6.5. Health Care.** The Government shall provide non-elective medical and dental services within the capability of the Government medical facility on a fee for service basis. The Government shall furnish emergency transportation of a patient via USAF aero-medical evacuation aircraft to the CONUS when directed by authorized medical authority.
- **3.3.6.6. Meals.** Contractor personnel are authorized use of the Dining Facility and shall pay for meals IAW applicable price structure.
- **3.3.6.7. Mortuary Services.** When requested, the Government shall provide mortuary services for personnel who die while employed on site.

APPENDIX A GEODSS REPORTING REQUIREMENTS

The Contractor shall deliver the reports and technical information as specified below:

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-1.1	GEODSS Operating Instructions (GOIs)	Sec 1, Ch 1, para 1.2.1	NLT 2 months after contract start and annually by 1 Nov	Det CCs	Det CCs 21 SW/PMD Applicable Functional Area Managers (FAMs)

Report Requirements: Document current operations in GOIs where other manuals and directives are not available or do not provide sufficient instructions in support of continued operations. Maintain a master index listing by series for all current, rescinded, and terminated GOIs. For current GOIs, index shall include the GOI number, GOI title, revision number, and revision date. For rescinded GOIs, index shall include GOI number, the name of the person who rescinded the GOI, and the rescinded date. For terminated GOIs, index shall include GOI number, the name of the Government person that terminated the GOI, and the termination date. GOIs shall not include proprietary markings or information. Provide final products to the Government in Microsoft Word format.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-1.2	Site Quality Status Report (QSR)	Sec 1, Ch 1, para 1.2.3.2, and Ch 2 para 2.1.7.3	Monthly by 10th	21 SW/ PMD	Det CCs 21 SW/PMD 21 CONS/LGCZ

Report Requirements: Provide a written report (Contractor's format) including the following:

- 1. Details of audits and inspections accomplished.
- 2. Deficiencies noted and current status of all issues yet to be resolved.
- 3. A measurement system (metrics) that graphically illustrates at minimum, the Contractor's performance with regard to each of the Performance Thresholds in the PWS Services Summary.
- 4. An independent narrative assessment and analysis of trends generated by the QA function.
- 5. Provide details on the following: supply and other logistical support status, electronic systems and civil engineering project status, mission critical system outages, other reportable outages, status of equipment, calibration issues, operations and maintenance issues, trend analysis, mission taskings completed, weather conditions, and CR CLIN expenditures.
- 6. Details relating to how deficiencies are being corrected.
- 7. Details of plan to prevent recurrence of deficiencies.

APPENDIX A GEODSS REPORTING REQUIREMENTS (cont.)

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-1.3	Maintenance Production Status Information	Sec 1, Ch 1, para 1.2.4	Weekly as scheduled by 21 OSS	21 OSS/MA email 21oss.ma.wf @us.af.mil	21 OSS/MASW Det CCs

Report Requirements:

Provide briefing slides with current information including scheduled maintenance (within the next month), maintenance issues, mission-capable (MICAP) supply issues and other items of interest as identified by 21 OSS/MASW.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-1.4	Contractor Manpower Reporting	Sec 1, Ch 1, para 1.2.11	Annually by 31 Oct of each calendar year.	21 CONS/ LGCZ	21 CONS/LGCZ 21 SW/PMD

Report Requirements: The Contractor shall enter the data via secure website. The Contractor is required to completely fill in all required data.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-2.1	System Assessment Report (SAR)	Sec 1, Ch 2, para 2.3.1.9	Monthly by 15th NLT 1200L	21 OSS/OSO	Det CCs 21 OSS/ MASW SMC/SYGO

Report Requirements: Reports shall contain general mission system software administrative actions/activities performed (such as system data collection, backup and retrieval) as well as status of open SCFs and PRs with associated priorities. Reporting period is from 0000Z on 1st day of the month to 2400Z on the last day of the month.

APPENDIX A GEODSS REPORTING REQUIREMENTS (cont.)

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-2.2	Daily Status Report (DSR)	Sec 1, Ch 2, para 2.1.9.	Weekly	SMC/SYGO	SMC/SYGO 21 OSS/MASW Det CCs

Report Requirements: As a minimum, reports shall contain daily information on:

- 1. Red, Yellow, and Green weather durations and percentages of available shooting time based on Civil sunrise/sunset Weather minutes (Red, Amber, & Green) per GEODSS site.
- 2. Data to verify Equipment Status Reporting (ESR) entries by site tower for Amber and/or Red events including (a) Civil sunrise/sunset times and total shooting period minutes available, (b) Obs counts by sensor plus a total, and (c) Tracks and Objects Requested, Attempted, and Acquired as well as Obs Count and Miss Codes for Auto Tasking, SOIs, Cat 1s, Clusters (detail by Cluster #s and totals) if available, Calsats, and manual 2B tasking¹ (2Bs, ISS/STS Conjunction Assessment (CA), and other high interest objects) details (by object ID) and totals.
- 3. The number of SOI objects tasked and number of SOI object signatures sent, separated by site.²
- 4. UCT management data (numbers of UCTs, UCT obs, discoveries, confirms and follow- ups).
- 5. Search data (sensor used, search type, start hour and minute, end hour and minute, duration, number of fields of view, number of correlated obs, number of uncorrelated obs, and additional descriptive information such as the camera settings (frames, exposure time, skip frames, etc.) or other unique conditions experienced during the search.

Data shall be easily accessible (e.g., in unprotected cells in Excel spreadsheet(s) that can be copied & pasted).

Notes:

- 1. 2B detail should include object #, CA indicator, Elset Age of object (if available), # attempts, # Acquired, and Comments (e.g., 'Weather' caused acquisition issues)
- 2. Below is a notional representation of the data required for "SOI Response":

SITE#	TOTAL # OF SOI OBJECTS	TOTAL # OF SOI OBJECTS TASKED	SIGNATURES WERE SENT ON
1	11	10	
2	180	180	
3	66	66	

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-2.3	MSA Certification	Sec 1, Ch 2, para 2.3.1.1.2	Annually by 1 Oct	21SW/SCXS	21 SW/SCXS

Report Requirements: Report changes to Cybersecurity certification IAW DoD 8570.01-M, and Tru64 UNIX Operating System, Red Hat Linux, and MS Windows.

APPENDIX A GEODSS REPORTING REQUIREMENTS (cont.)

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-3.1	Installation and Checkout Test Plan	Sec 1, Ch 3, para 3.2.1.	As Requested by Det CC	21 OG	Det CCs 21 OSS/MASW

Report Requirements: Develop and submit installation and checkout test plans for newly installed hardware, firmware, or software through the Det CC to 21 OG/TD for final approval.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-4.1	Maintenance Assistance Requests	Sec 1, Ch 4, para 4.2.2	As Required IAW TO	21 OSS/ MASW	21 OSS/MASW Det CCs e-mail 21sw.woc@us. af.mil

Report Requirements: Submit requests for Technical Assistance (TA), Engineering Assistance (EA), Emergency Depot Level Maintenance (EDLM) or Urgent Depot Level Maintenance (UDLM) IAW TO 00-25-108 para 2.5, fig 2-4 - 2-5, TO 00-25-107 para 2.1 - 2.1.3, and 2.2 - 2.3.7

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution		
R1-4.2	Technical Order (TO) System Improvement	Sec 1, Ch 4, para 4.2.6	As TO changes are needed	AFSPC/ A4	AFSPC/A4 Det CCs		
Report Rec	Report Requirements: Submit IAW TO 00-5-1, paras 9.1.14., 9.1.15, 9.2, 9.6, and 9.7.						

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-6.1	Item Unique Identification (IUID)	Sec 1, Ch 6, para 6.2	Annually by 15 Sep	21 SW/PMD	Det CCs 21 SW/PMD 21 CONS/LGCZ

Report Requirements: Provide a list of items that the Contractor purchased outside of the SBSS, which were not provided through Depot level support or another Government contract, and where the acquisition value is greater than \$5,000. The Contractor shall also include the IUID number for each part listed.

APPENDIX A GEODSS REPORTING REQUIREMENTS (cont.)

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-9.1	Utility Outage and Status Report	Sec 1, Ch 9, para 9.7	As Excel spreadsheet requires	21 CES/ CENP	Det CCs 21 CES/CENP

Report Requirements: Submit Report IAW Excel format provided. Send report to 21 CES/CENP and all site government personnel.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R1-9.2	Comprehensive Plan	Sec 1, Ch 9, para 9.10.1	90 days after contract start; and annually by 1 Nov	21 CES/ CENP	Det CCs 21 CES/CENP

Report Requirements: Provide information forecasting Safety, Quality of Life, RP and RPIE repair, upgrades, and sustainment projects five years prior to end of useful life or desired start date. Input must include description of work, justification, and Host Installation approval number.

Note: Projects identified in the Five-Year Plan and FEP are prioritized by the PAFB Facilities Board. 21 CES/CENP receives funding for and implements approved projects at the Sites.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R3-3.1	Technical Documentation List	Sec 3, Para 3.2.1	Annually by 1 Nov	21 SW/PMD	21 CONS/LGCZ 21 SW/PMD

Report Requirements: Update list provided by CO at contract start and publish annually.

Report Number	Report Title	PWS Reference	Frequency of Submission	Requiring Office	Distribution
R3-3.2	Workload Data	Sec 3, Para 3.2.2.	Each Option Year by 15	21 SW/ PMD	21 CONS/LGCZ 21 SW/PMD
			Sept		

Report Requirements: Collect, maintain, and submit workload data in electronic format for the following PWS requirements:

Sec 1, paras 1.2.6, 2.1.2, 2.1.2.2, 3.1, 3.1.4, 3.2.3, 4.1.1, 5.1, 7.1.1, 7.4.1.3, 7.6, 9.3.1.4, 11.4, and 11.5.3

APPENDIX B GEODSS PUBLICATIONS

"Location" of publications (below) is provided as a convenience to the Contractor. If a publication cannot be obtained, contact the CO or the Government Program Manager. If the "Location" states "Technical Library", it is to be maintained (and replaced with updated copies as changes occur) by the Contractor at the sites. Notify the CO within 30 days of receipt of revisions, changes, supplements, and notifications of rescission (including referenced publications in the PWS), if there is a cost impact resulting from such revisions, changes, supplements, and rescissions. If the Contractor does not notify the CO and performs IAW such revisions, changes, supplements, and rescissions, it shall be at no increase to the contract's price. Revisions, changes, supplements, and rescissions to publications that increase cost will not become effective until directed by the CO. A directive publication is one in which compliance by the Contractor is mandatory. If a directive publication requires compliance with one or more publications or parts of other publications, the referenced publication(s) or referenced part(s) is/are information for the Contractor as they apply to the original directive publication unless the referenced document is also included in this appendix as a directive publication. Supplements to that portion of a directive publication contained in the PWS are also directive.

Publication	Publication Title	Chapter	Location
AFI 10-201	Status of Resources and Training	2	http://www.e-publishing.af.mil
AFI 10-206	Operational Reporting	2	http://www.e-publishing.af.mil
AFI 10-206/ AFSPC Sup 1	Operational Reporting	2	http://www.e-publishing.af.mil
AFI 10-701	Operations Security (OPSEC)	11	http://www.e-publishing.af.mil
AFI 10-712	Cyberspace Defense Analysis (CDA) Operations and Notice and Consent Process	7	http://www.e-publishing.af.mil
AFI 16-1404	Air Force Information Security Program	11, 12	http://www.e-publishing.af.mil
AFI 16-1404	Air Force Information Security Program	Appendix E	http://www.e-publishing.af.mil
AFI 16-1406	Air Force Industrial Security Program	11	http://www.e-publishing.af.mil
AFI 21-103	Equipment Inventory, Status, and Utilization Reporting	4	http://www.e-publishing.af.mil
AFI 23-101	Air Force Material Management	6	http://www.e-publishing.af.mil
AFMAN 23- 122	Material Management Procedures	6	http://www.e-publishing.af.mil
AFI 24-101	Passenger Movement	6	http://www.e-publishing.af.mil
AFI 24-203	Preparation and Movement of Air Force Cargo	6	http://www.e-publishing.af.mil
AFI 32-1054	Corrosion Control	9	http://www.e-publishing.af.mil
AFI 32-1065	Grounding Systems	9	http://www.e-publishing.af.mil
AFI 32-1067	Water and Fuel Systems	9	http://www.e-publishing.af.mil
AFMAN 33- 145	Collaboration Services and Voice Systems Management	7	http://www.e-publishing.af.mil
AFMAN 33- 153	Information Technology (IT) Asset Management (ITAM)	7	http://www.e-publishing.af.mil
AFI 33-200	Information Assurance (IA) Management	1,7	http://www.e-publishing.af.mil

Publication	Publication Title	Chapter	Location
AFI 33-210	Air Force Certification and Accreditation (C&A) Program (AFCAP)	2	http://www.e-publishing.af.mil
AFMAN 33-283	Communications Security (COMSEC) Operations	7	http://www.e-publishing.af.mil
AFMAN 33-302 and DoD5400.7-R	Freedom of Information Act Program	12	http://www.e-publishing.af.mil
AFI 33-322	Air Force Records Management Program	12	http://www.e-publishing.af.mil
AFI 33-332	Air Force Privacy Act Program	12	http://www.e-publishing.af.mil
AFMAN 33-363	Management of Records	7,12	http://www.e-publishing.af.mil
AFI 33-364	Records Disposition – Procedures and Responsibilities	12	http://www.e-publishing.af.mil
AFI 33-590	Radio Management	7	http://www.e-publishing.af.mil
AFI 91-203	Air Force Consolidated Occupational	4	http://www.e-publishing.af.mil
AFCSM 21- 556V2	Introduction to Core Automated Maintenance System (CAMS) (FOUO)	4	Technical Library
AFCSM 21- 560V2	C-E Equipment and Inventory Reporting Software User Manual (FOUO)	4	Technical Library
AFCSM 21- 561V2	Maintenance Events Software User Manual (FOUO)	4	Technical Library
AFCSM 21- 562V2	Location Subsystem Software User Manual (FOUO)	4	Technical Library
AFCSM 21- 563V2	Job Data Documentation (JDD) Software (FOUO)	4	Technical Library
AFCSM 21- 564V2	Status and Inventory Reporting Software User Manual (FOUO)	4	Technical Library
AFCSM 21- 569V2	Personnel Management Software User Manual (FOUO)	4	Technical Library
AFCSM 21- 571V2	Database Management Software User Manual (FOUO)	4	Technical Library
AFSPCI 10-260	Tactics Development Program	3	http://www.e-publishing.af.mil

Publication	Publication Title	Chapter	Location
AFSPCI 21- 108	Space Systems Maintenance (FOUO)	4	Technical Library
AFSPCGM20 15-13-01	HQ AFSPC Memorandum	2	http://www.e-publishing.af.mil
AFSPCGM20 16-13-01	HQ AFSPC Memorandum	2	http://www.e-publishing.af.mil
DoD 5220.22- R	Industrial Security Regulation	11	http://www.dtic.mil/whs/directives/
DoD 5220.22- M	National Industrial Security Program Operational Manual	11	http://www.dtic.mil/whs/directives/
DoDI 8500.01	Cybersecurity	1	http://www.dtic.mil/whs/directives/
DoDI 8510.01	Risk Management Framework (RMF) for DoD Information	1,2,7	http://www.dtic.mil/whs/directives/
DoD 8570.01- M	Information Assurance Workforce Improvement Program	2,7	http://www.dtic.mil/whs/directives/
ETL 13-4	Emergency and Standby Generator Design, Maintenance, and Testing Criteria	9	http://www.wbdg.org/ccb/ browse_cat.php?c=125 Also Technical Library
FAR 31.205- 46	Travel Costs	6	http://farsite.hill.af.mil
GDS-D-SAM- 09000	Software Administrator's Manual (SAM)	2	Technical Library
NIST SP 800-53	Security and Privacy Controls for Federal Information Systems and Organizations	2,7	http://dx.doi.org/10.6028/ nist.sp.800-53r4 Also Technical Library
SI 527-1	Operations, Planning, and Command and Control	2	Contact Det CC
SSOps OI 534-9(S)	Space Surveillance Operations Operating Instruction	2	http://www.e-publishing.af.mil
TO 00-5-1	AF Technical Order System	1,4	Technical Library
TO 00-5-15	Air Force Time Compliance Technical Order Process	4	http://www.robins.af.mil/library/technicalorders.asp Also Technical Library
TO-00-20-2	Inspection and Preventive Maintenance	4	Technical Library
TO 00-20-3	Maintenance Processing Of Repairable Property And Repair	4	Technical Library
TO 00-20-14	Air Force Metrology and Calibration Program	5	http://www.wpafb.af.mil/library/fact sheets/factsheet.asp?id=19755 Also Technical Library
TO 00-25-107	Maintenance Assistance		Technical Library
TO 00-25-108	Communications-Electronics (C-E) Depot	4	Technical Library
TO 00-25-195	Source Maintenance And Recoverability	4	Technical Library

Publication	Publication Title	Chapter	Location
TO 00-25-234	General Shop Practice	6	http://www.robins.af.mil/library/t
	Requirements for the Repair,		echnicalorders.asp
	Maintenance and Test of Electrical		<u> </u>
	Equipment		Also Technical Library
TO 00-33A-	Methods and Procedures General	4	Technical Library
1001	Communications Activities		,
	Management Procedures and		
	Practice Requirements (FOUO)		
TO 00-33A-	AFIN Voice Systems	7	Technical Library
1108	Management (FOUO)		
TO 00-35D-54	USAF Material Deficiency	4	Technical Library
	Reporting and Investigating		
	System		
TO 1-1-700	Corrosion Prevention and Control	4	http://www.robins.af.mil/library/
	Ground Communications –		technicalorders.asp
	Electronic Equipment (C-E)		Also Technical Library
TO 31-10-7	Terminating and Soldering	4	Technical Library
1001101	Electrical Connections (FOUO)		Toomingar Elbrary
TO 31S1-	Workcards Scheduled Periodic	4	Technical Library
2FSQ114-	Inspection Workcards GEODSS	•	Toomingar Elbrary
6WC-1	System Tracking Station (FOUO)		
TO 31S1-	Control Console and Display	4	Technical Library
2FSQ114-41	Group (FOUO)		,
TO 31S1-	Time Indicator Group (FOUO)	4	Technical Library
2FSQ114-81	,		,
TO 31S1-	Operation and Maintenance	4	Technical Library
2FSQ114-91	Instructions with Circuit		,
	Diagrams and IPB-		
	Meteorological Data Display		
	Group, OA-9058/FSQ-114 &		
	GEODSS Equip Corp) GEODSS		
	(Former 31S1-2FSQ114-103)		
	(FOUO)		
TO 31S1-	Operation and Maintenance	4	Technical Library
2FSQ114-	Instructions with IPB –		,
181	Telescope-Mount Group, OA-		
	9050/FSQ-114 (FOUO)		
TO 31S1-	Technical Manual, Circuit	4	Technical Library
2FSQ114-	Diagrams-Telescope-Mount		
183	Group, OA-9050/FSQ-114		
	(FOUO)		

Publication	Publication Title	Chapter	Location
TO 31S1- 2FSQ114- 191	Operation and Maintenance Instructions with Circuit Diagrams and IPB-Dome Group, OA-9032/FSQ-114 (FOUO)	4	Technical Library
TO 31S1- 2FSD3-12	Sensor Controller Group (FOUO)	4	Technical Library
TO 31S1- 2FSQ114- 271	Data Processing Group (FOUO)	4	Technical Library
TO 31S1- 2FSQ201-1	System Operator Manual (FOUO)	2	Technical Library
TO 33-1-27	Logistic Support of TMDE in FSC (FOUO)	5	Technical Library
TO 33-1-32	General Instructions for Input Power Wiring (FOUO)	5	Technical Library
TO 33K-1- 100-1	Calibration Procedure for MDC Codes and Calibration Measurement Summaries	5	http://www.wpafb.af.mil/library/ factsheets/factsheet.asp?id=19755 Also Technical Library
TO 33K-1- 100-2	TMDE Calibration Notes, Calibration Interval, Technical Order, and Work Unit Code Reference Guide (FOUO)	5	T.O. Account CD Distribution only Also Technical Library
UFC 3-601- 02	O&M, Testing and Maintenance of Fire Protection Systems	9	Technical Library
21 SWI 10- 202	Operations Maintenance Scheduling	4	http://www.e-publishing.af.mil
21 SWI 21- 131	Sensor System Maintenance and Modification	2	http://www.e-publishing.af.mil

APPENDIX C HOST INSTALLATION PLANS, POLICIES AND PROCEDURES

PWS Para Reference	Title of Host Plan, Policy or Procedure	Det/Host Installation
8.1.2	White Sands Missile Range Hazard Communication Program Handbook	Det 1/US Army, WSMR, NM
8.1.2	White Sands Missile Range Regulation (WSMRR) 200-1, Environmental Hazardous Waste/Material Management	Det 1/US Army, WSMR, NM
8.1.2	WSMR Environmental Compliance Handbook	Det 1/US Army, WSMR, NM
8.1.2	Diego Garcia Final Governing Standards (for Environmental Compliance)	Det 2/US Navy Support Facility, Diego Garcia
8.1.2	Hazardous Materials Management Program Hazardous Waste Management Plan (IROSS Contract #FA9451-05-C-0257 Deliverable to AFRL – CDRL A030)	Det 3/Det 15, AFRL, Kihei, HI
8.1.2	DGLOCALCOORDINST 5090.4C, Hazardous Waste Management Plan (HWMP)	Det 2/US Navy Support Facility Diego Garcia
8.1.5.	US Army WSMR Environmental Spill Plan, Annex G to WSMR Environmental Compliance Handbook and Building 34571 (GEODSS Facility Maintenance) Spill, Evacuation & Emergency Plan	Det 1/US Army, WSMR, NM
8.1.5	Navy Support Facility Diego Garcia (NSFDG), Spill Prevention and Response Plan (SPRP)	Det 2/US Navy Support Facility Diego Garcia
8.1.5.	MSSC Spill Prevention, Control and Countermeasures Plan (IROSS Contract #FA9451- 05-C-0257 Deliverable to AFRL – CDRL A030)	Det 3/Det 15, AFRL, Kihei, HI
9.11.3	US Army WSMR Fire and Emergency Services Division Fire Regulation 420-3	Det 1/US Army, WSMR, NM
9.11.3	DGREGCOORDINST 11320.7E, Promulgation of Fire Prevention Regulations, NAVSUPPFAC Diego Garcia	Det 2/US Navy Support Facility, Diego Garcia
9.18	US Army WSMR Energy Management Program, WSMRR 11-27	Det 1/US Army, WSMR, NM
9.18	DGREGCOORDINST 4101.1D, Energy Management Program	Det 2/US Navy Support Facility, Diego Garcia
9.18	WSMR All Hazards Response Plan (FOUO)	Det 1/US Army, WSMR, NM
9.19	DGLOCALCOORDINST 3440.17A, Emergency Management Program,	Det 2/US Navy Support Facility, Diego Garcia

APPENDIX D GEODSS PWS ACRONYMS

ACRONYM	LONG VERSION
16/7	16-hours-a-day, 7 days-a-week
20 SPCS	20th Space Control Squadron
21 AMDS/SGPB	21st Aerospace Medicine Squadron, Bioenvironmental Engineering Flight
21 LRS	21st Logistics Readiness Squadron
21 OG	21st Operations Group
21 SW	21st Space Wing
21 SW/PMD	21st Space Wing 21st Space Wing/Program Management Division
ABW	Air Base Wing
	Contractor Controlled Availability
A _{cc}	,
	Air Force
AFB	Air Force Base
AFCAP	Air Force Certification and Accreditation (C&A) Program
AFCSM	Air Force Computer System Manual
AFI	Air Force Instruction
AFMAN	Air Force Manual
AFRIMS	Air Force Records Information Management System
AFRL	Air Force Research Laboratory
AFSPC	Air Force Space Command
AFSPCI	Air Force Space Command Instruction
AFTO	Air Force Technical Order
AFTT	Air Force Transition Team
AIG	Auxiliary Instrumentation Group
AMC	Air Mobility Command
AT	Antiterrorism
Atch	Attachment
ATS	Automatic Transfer Switch
AutoCAD	Automated Computer Aided Design
AUTODIN	Automatic Digital Network
BIOT	British Indian Ocean Territory
BSL	Basic Systems List
C4	Command, Control, Communications and Computer
C4ISR	Command, Control, Communications, Computers, Intelligence, Surveillance
	and Reconnaissance
C&A	Certification and Accreditation
CA/CRL	Custody Authorization/Custody Receipt Listing
CALSATS	Calibration Satellites
CAMS	Core Automated Maintenance System
CAP	Cryptographic Access Program
CBA	Collective Bargaining Agreement
CBT	Computer-Based Training
CC	Commander
CCAS	Combat Capability Assessment Schedule
CDA	Cyberspace Defense Analysis
CDE	Cyberspace Defense Analysis
CE	Civil Engineer

CFP Com CH Chap CIL Critic CIPS C4IS CLD Contr	munications-Electronics munications Focal Point oter cal Information List R Infrastructure Planning System (CIPS) ractor Liable Downtime ract Line Item Number
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CIPS C4IS CLD Contr	R Infrastructure Planning System (CIPS) ractor Liable Downtime
CLD Contr	ractor Liable Downtime
CLIN Conti	ract Line Item Number
J = 11 1 J J J J J J J J J J J J J J J J	idot Elilo itolii i talliboi
CM Corre	ective Maintenance
CMAFS Chey	venne Mountain Air Force Station
	sified Material Conversion
CMT Com	mon Message Terminal
	racting Officer
	puter Security
	munications Security
	inental United States
COR Conti	racting Officer Representative
	Reimbursable
CRE Crisis	s Response Element
	ersecurity Awareness and Assistance Program
	ersecurity Liaison
	t Support Technician
	solidated Tasking List
	nse Courier Service
	chment
DIFM Due I	In For Maintenance
DISA Defei	nse Information Systems Agency
	nse Logistics Agency - Energy
	artment of Defense
	artment of Defense Instruction
	artment of Defense Directive
	artment of Defense Regulation
	artment of Defense Risk Management Framework
	Processing Group
	Status Report
	nse Security Service
	elopment Test and Evaluation
	neering Assistance
	oment Authorization Inventory Data
	cise Controller or Equipment Custodian
	onmental Compliance Contact
	oment Change Orders /Equipment Control Officer
	rgency Depot Level Maintenance
	neering Investigation
	ent Set

ACRONYM	LONG VERSION
EMO	Environmental Management Office
EMSEC	Emission Security
EPA	Environmental Protection Agency
ERM	Electronic Records Management
ERRC	Expendability, Recoverability, Reparability Code
ESD	Electro-Static Devices
ESM	Electronics Systems Maintenance
ESR	Equipment Status Reporting
ETL	Engineering Technical Letter
FAR	Federal Acquisition Regulation
FARM	Functional Area Records Manager
FCA	Formal Cryptographic Access
FCO	Field Change Order
FEDEX	Federal Express
FEP	Facilities Excellence Plan
FOIA	Freedom of Information Act
FOUO	For Official Use Only
FPCON	Force Protection Condition
FSL	Full Systems List
FTE	Full Time Equivalent
FY	Fiscal Year
GEODSS	Ground-based Electro-Optical Deep Space Surveillance
GFE	Government Furnished Equipment
GFI	Government-Furnished Information
GFP	Government-Furnished Property
GOI	GEODSS Operating Instruction
GSA	General Services Administration
GSU	Geographically Separated Unit
HAZMAT	Hazardous Material
HHQ	Higher Headquarters
HVAC	Heating, Ventilation and Air Conditioning
IAT	Information Assurance Technical
IAW	In Accordance With
ID	Identification
IMDS	Integrated Maintenance Data System
INFOCON	Information Condition
ISSM	Information Systems Security Manager
ISSO	Information Systems Security Officer
ITE	Information Technology Equipment

ACRONYM	LONG VERSION
ITEC	Information Technology Equipment Custodian
ITW/AA	Integrated Tactical Warning and Attack Assessment
IUID	Item Unique Identification
JBB	Local Purchase SBSS Routing Identifier
JDD	Job Data Documentation
JPAS	
JspOC	Joint Personnel Adjudication System
KMI	Joint Space Operations Center
	Key Management Infrastructure
KOAA	KMI Operating Account Agent
KOAM	KMI Operating Account Manager
LAN	Local Area Network
LEO	Low Earth
LMR	Land Mobile Radio
LOI	Letter of Identification
LRU	Line Replaceable Unit
MDC	Maintenance Data Collection
MFT	Multi-Functional Team
MICAP	Mission-Capable
MICT	Management Internal Control Toolset
MILCON	Military Construction
MOC	20 SPCS Mission Operations Center (MOC)
MSA	Mission System Administrator
MSDS	Material Safety Data Sheets
MTBF	Mean-time Between Failures
MTTR	Mean-time to Repair
NAC	National Agency Check
NACLC	National Agency Check with Local Agency Credit Check
NASIC	National Air and Space Intelligence Center
N-CSDS	Net-Centric Sensors and Data Sources
NEPA	National Environmental Policy Act
NIPRNET	Non-Secure Internet Protocol Network
NLT	No Later Than
NMC	Not Mission Capable
NMCS	Non Mission Capable Supply
NMCU	Not Mission Capable Unscheduled
O&M	Operations and Maintenance
OG	Operations Group
OI	Operating Instruction
OPREP	Operational Reporting
OPSCAP	Operations Capability
OPSEC	Operations Security
OSHA	Occupational Safety and Health Administration
OT&E	Operational Test and Evaluation
PA	Privacy Act
PAFB	Peterson Air Force Base
PAR	Performance Assessment Report
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ACRONYM	LONG VERSION
PARA	Paragraph
PCCIE	Power Conditioning and Continuation Interface Equipment
PDLM	Programmed Depot Level Maintenance
PL	Protection Level
PM	Program Manager / Preventive Maintenance
PMC	Partial Mission Capable
PMD	Program Management Division
PMEL	Precision Measurement Equipment Laboratory
PMI	Preventive Maintenance Inspection
POC	Point of Contact
PQDR	Product Quality Deficiency Report
PR	Problem Report
PWS	Performance Work Statement
QA	Quality Assurance
QAM	Quality Assurance Manager
QASP	Quality Assurance Surveillance Plan
QPP	Quality Program Plan
QSR	Quality Status Report
RAMS	Random Antiterrorism Measures
RC	Records Custodian
REMIS	Reliability and Maintainability Information System
RMF	Risk Management Framework
RP	Real Property
RPIE	Real Property Installed Equipment
RWP	Recurring Work Program
S	Secret
SA	Support Agreement
SAM	System Administrator's Manual
SAR	System Assessment Report
SBSS	Standard Base Supply System
SCF	Standard Change Form
SCG	Sensor Controller Group
SEC	Section
SENSOR	System optical sensor or System Engineering and Sustainment Integrator
	Contract
SI	Strategic Instruction
SIPRNET	Secure Internet Protocol Router Network
SMC	Space and Missile Center
SMR	Source, Maintenance and Recoverability
SOI	Space Object Identification
SORTS	Status of Resources and Training Systems
SRD	Standard Reporting Designator
SRVB	System Requirements Validation Board
SS	Services Summary

ACRONYM	LONG VERSION
SSA	Space Situational Awareness
SSN	Space Surveillance Network
SSOps	Space Surveillance Operations
STD	Standard
STRATCOM	Strategic Command
SUP	Supplement
SWI	Space Wing Instruction
TA	Trusted Agent / Technical Assistance
TCTO	Time Compliance Technical Order
TDY	Temporary Duty
TIP	Tactics Improvement Proposal
TMDE	Test, Measurement and Diagnostic Equipment
TMO	Traffic Management Office
TO	Technical Order
TRIC	Transaction Identification Code
TRN	Maintenance Turnaround
TTP	Tactics, Techniques, and Procedures
UCT	Uncorrelated Target
UDLM	Urgent Depot Level Maintenance
UFC	Uniform Facilities Criteria
UND	Urgency Need Designator
UPS	Uninterruptible Power Supply
US	United States
USAF	United States Air Force
USSTRATCOM	United States Strategic Command
UTC	Universal Time Coordinated
VGSA	Visitor Group Security Agreement
VOL	Volume
WAN	Wide Area Network
WRVB	Wing Requirements Validation Board
WSMR	White Sands Missile Range

APPENDIX E GEODSS PWS DEFINITIONS

Term	Definition
- A -	
Active Hours	Possessed hours equipment is reported in use.
Active Minutes	Time from x minutes after civil sunset to y minutes before civil sunrise as defined by the Astronomical almanac for civil twilight (6 degree depression of the sun) times the number of assigned sensors on site.
Air Force Transition Team	A team of Government personnel who ensure the transition from a closing contract to a new contract is properly carried out. The team is usually comprised of the pertinent contracting officers, on-site quality assurance personnel, and other Government representatives who have the necessary skills, knowledge, and/or experience to help in the transition. The team deployment during transition depends on the time for phase-in/out, number of sites affected by the contract, number of team members, and other possible factors.
Asset	Includes personnel, property, and material.
Available Sensor	Sensor that is not in depot status or supporting other AF-approved activities.
- B -	
Bench Stock	A stock of consumption-type supplies and parts established at or near point of consumption to ensure continuous and uninterrupted operations.
- C -	
Civil Sunrise	Defined to begin in the morning when the center of the Sun is geometrically 6 degrees below the horizon. Also see definition for "civil twilight" below.
Civil Sunset	Defined to begin in the evening when the center of the Sun is geometrically 6 degrees below the horizon. Also see definition for "civil twilight" below.
Civil Twilight	Defined to begin in the morning, and to end in the evening when the center of the Sun is geometrically 6 degrees below the horizon. This is the limit at which twilight illumination is sufficient, under good weather conditions, for terrestrial objects to be clearly distinguished; at the beginning of morning civil twilight, or end of evening civil twilight, the horizon is clearly defined and the brightest stars are visible under good atmospheric conditions in the absence of moonlight or other illumination.
Communications- Electronics (C-E) Equipment	All communications systems and equipment including but not limited to ground-based radio and wireless systems including infrared, radar, radiating aids for fire control, and intrusion detection systems, mission critical computer hardware, cryptographic equipment and communications consoles; electronic counter-measures, and electronic devices as stated in the PWS and inventories.
Communication Security (COMSEC)	Consists of those actions to preclude unauthorized persons from obtaining valuable information. It includes crypto security, personnel security, physical security, transmission security, and emission security.

Term	Definition
- C -	
COMSEC Equipment	Also referred to as "Crypto." Electronic equipment used to scramble signals to prevent interception during transmission along wire or radio paths
COMSEC Finding	Any Government-identified critical deficiencies, significant problems, problems corrected on the spot, or non-compliance with contract requirements that specifies that an activity or action did not take place, or did not take place to the standards of timeliness or quality required.
COMSEC Incident	COMSEC Incident-occurrence that potentially jeopardized the security of COMSEC material or the secure electrical transmission of national security information or information governed by 10 U.S.C. Section 2315.
Contracting Officer	A person duly appointed with the authority to enter into and administer contracts on behalf of the Government.
Contractor Liable Downtime (CLD)	Applies to Level 1 hardware and software corrective maintenance. Accountable downtime starts when a sensor is degraded until the sensor is repaired and an operations check is successful, unless deemed unnecessary.
Contractor Non-Liable Downtime	a. Software or hardware problems. Software or hardware problems, unless the outage was determined to be caused by the Contractor. b. Periodic calibrations and calibrations required to complete corrective maintenance (CM) procedures. The Contractor is not liable for all periodic calibrations (radiometric calibrations), full mount calibrations, etc.) and calibrations required by Tos to complete CM procedures accomplished during the preceding daylight period (assuming operational weather immediately follows the maintenance period.) If a sensor fails a calibration required to complete a CM procedure, CLD begins at the start of that operational period. Any other maintenance-related calibrations are accountable. c. MICAP Condition. A verified MICAP condition (calculated from the time the part is ordered to the time the part is received plus eight (8) hours maintenance during day shift). Accountable downtime shall start if a sensor is not 100% operational after two (2) MICAP items are utilized. Document exceptions to MICAP downtime and brief to the Det CC for performance standard waiver consideration. The CO must approve exceptions. In general, if the parts shortage should have reasonably been anticipated or more thorough troubleshooting could have detected the root cause of a problem, a request for waiver from MICAP downtime will not be approved. d. Monthly maintenance. Downtime scheduled in the monthly maintenance schedule and approved by the Det CC and HHQ as being Contractor non-liable. e. Urgent Depot Level Maintenance (UDLM) or Emergency Depot Level Maintenance (EDLM). When the Government determines that a request for UDLM/ EDLM or engineering or technical assistance is required. f. Approved special tests or projects. Downtime required for special tests or projects approved by the AF.

Term	Definition
- C -	
- C - Contractor Non- Liable Downtime cont.	 g. Operational training. Any equipment outage occurring during operational training of AF personnel that is directly attributable to the training. h. Insufficient troubleshooting guidance. The time associated with delays caused by situations where sufficient troubleshooting guidance is not contained in the appropriate TO. i. Applicable directive and TO requirements. Downtime incurred IAW applicable directives and TO requirements (e.g., warm-up or cool down periods). j. Government caused delay. A requirement to notify the chain of command or downtime due to a HHQ priority. k. Event outside the Contractor's control. Downtime caused by event outside the Contractor's control may be determined to be Contractor non-liable by the CO (with inputs from the Det CC). For example: Site evacuation for range safety (applies to Det 1 only); fire or
Controlled	explosion caused by events beyond the Contractor's control and beyond the scope of normal contingency planning; weather or other natural phenomenon that could not be planned for or controlled, etc.; or unobtainable spare parts may be determined to be Contractor non-liable where newly acquired materials or components are not available yet through the supply system or the Contractor has attempted to keep adequate bench stock while properly planning ahead for parts deficiencies and using the procedures within SBSS, but due to problems beyond the Contractor's control, those parts have not been delivered.
Unclassified Information (CUI)	Unclassified information that requires safeguarding or dissemination controls, pursuant to and consistent with applicable law, regulations, and Government-wide policies.
Corrective Maintenance	All actions performed as a result of failure, to restore an item to a specified condition. Corrective maintenance can include any or all of the following steps: localization, isolation, disassembly, interchange, reassembly, alignment and checkout.
Critical Information	Specific facts about friendly intentions, capabilities, or activities vitally needed by adversaries for them to plan and act effectively to guarantee failure or unacceptable consequences for friendly mission accomplishment.
- D -	
Depot Level Maintenance	That maintenance performed on equipment requiring major overhaul. Depot level maintenance includes: repair, replacement, or a complete rebuild of parts, assemblies, subassemblies, or the end items. It also includes the manufacture, reclamation, and testing of parts, assemblies, etc., when required.
Depot status	EDLM, UDLM, and programmed depot level maintenance or planned upgrade.
Designated Representative	A person who is empowered to act on behalf of the unit commander, or other officials designated in the contract.
Downtime	Any mission degradation that results in OPSCAP red time.

Term	Definition
- E -	
Emergency	Work to Real Property or Real Property Installed Equipment required to eliminate a condition within 24 hours of notification that is detrimental to mission, health, safety, environment, or could cause degradation to Government property.
Equipment Authorization Inventory Data (EAID)	Non-expendable items that are maintained on equipment management inventory records
Evolution or System Evolution	Used in the following context, "in support of issues dealing with the evolutionof the systems", refers to the upgrading, modifying, phasing in, deactivating, removal, or phasing out of inherent site systems.
- F -	
Facility	A building, structure, utility system or other improvement to real property, having value and requiring periodic maintenance and upkeep.
Findings	Any Government-identified noncompliance with contract requirements that specifies that an activity or action did not take place, or did not take place to the standards of timeliness or quality required.
Formal Cryptographic Access	Formal documentation of an individual's access to Secret COMSEC keying material, and consent to a periodic, non-lifestyle, counterintelligence polygraph examination
For Official Use Only (FOUO)	A protective marking to be applied to unclassified information when disclosure to the public of that particular record, or portion thereof, would reasonably be expected to cause a foreseeable harm to an interest protected by one or more provisions of the FOIA. This includes information that qualifies for protection pursuant to the provisions of the Privacy Act of 1974, as amended. See Reference (p) for detailed information on categories of information that may qualify for exemption from public release.
Full Systems List (FSL)	The FSL lists all systems and subsystems needed for full mission performance. It lists the essential systems and subsystems that must work to do all BSL missions (specifically assigned unit wartime, training or test missions), and other kinds of unit missions.
Fully Mission Capable (FMC) – Green	Equipment/system functioning as required in TO specifications and is capable of doing all assigned missions.
Furnishings	Includes furniture, floor coverings, art work, beds, drapes, televisions and appliances.
- G -	
Government- Furnished Property (GFP)	Property in the possession of, or directly acquired by, the Government and subsequently made available to the Contractor.

Term	Definition
- G -	
Government Property	All property owned by or leased to the Government or acquired by the Government under the terms of the contract. It includes both Government-furnished property and Contractor-acquired property as defined in this section. See Federal Acquisition Regulation, Part 45, Government Property,
	Subpart 45.1, Para 45.101, Definitions, for definitions of other types of property.
- H -	
Hardware	 The generic term dealing with physical items as distinguished from its capability or function such as equipment, tools, implements, instruments, devices, sets, fittings, trimmings, assemblies, subassemblies, components, and parts. In data automation, the physical equipment or devices forming a
	computer and peripheral components.
Hazardous Waste	Any used hazardous substance that exhibits the characteristics of: 1) ignitability, 2) corrosivity, 3) reactivity, 4) toxicity, or 5) listed in 40 CFR 261, subpart D.
-1-	
Incumbent	Contractor who is holding the present contract
Intermediate Level Maintenance	That maintenance performed on equipment requiring minor overhaul. Intermediate maintenance includes: the periodic inspection and servicing of equipment; the repair or replacement of unserviceable parts, assemblies, subassemblies, and components; the local manufacture or reclamation of non-available parts; and the calibration of instrumentation and protective devices.
- J -	
Joint Inventory	An inventory conducted with the participation of the Incumbent, the Successor, and the AF Transition Team.
- K -	
KMI Operating Account Agent (KOAA)	The individual formally reported, in writing, to the COMSEC account as being responsible for COMSEC material and equipment at a user location.
-L-	
Level 1 Maintenance	The systematic, timely, and periodic inspection and servicing of equipment which results in elimination of hazard to life and property, includes maximum reliability of equipment, and creates the minimum number of major and costly repair jobs, and produces the optimum utilization of equipment throughout its serviceable life.
Local Area Network (LAN)	A group of interconnected computers that can share data, programs, and resources such as printers. A LAN enables transfer of information within a group of users separated by distances of up to a few kilometers

Term	Definition
- M -	
Maintenance	Actions necessary for retaining or restoring a piece of equipment, machine, system, or property to the specified operable condition to achieve its maximum useful life. It includes corrective maintenance and preventive maintenance.
Maintenance Support	Includes maintenance (scheduled and unscheduled) and management necessary to satisfy the maintenance requirements of the using organization. Contractor support includes (as defined herein) repair, lubrication, equipment alignment, installation of Government-approved modifications, testing and corrosion control, and the maintenance and dissemination of logs, drawings, records, and forms. Also included is that Contractor in-plant technical support necessary to resolve equipment problems, which are beyond the capability of on-site personnel. In-plant support will be limited to minimum engineering necessary for restoration of mission capability.
Major Finding	A conclusion that identifies a condition having a significant adverse effect on the quality of the activity under review that includes but not limited to: a. Failure to meet a Performance Threshold. b. Significant mission degradation in any Contractor operated function. c. A situation that is likely to result in hazardous or unsafe conditions for individuals (or any other Government resource) coming into contact with the work. d. Failure to provide adequate corrective action to prevent reoccurrence of Government identified findings. e. Failure to provide corrective action to deficiencies identified by the Contractor within a prescribed suspense period. f. Any failure to adhere to safety, security or environmental instructions/directives that results in or could result in a safety, security or environmental violations/incidents. g. Damage to equipment or potential damage to equipment.
Major Overhaul	The restoration of equipment beyond original specifications through modifications/machining and the installation of other than original specification parts. (e.g., Major engine overhaul may include cylinder boring and installation of oversize piston rings, machining of crankshaft journals and installation of oversize bearings, etc.)
Major Repair	The restoration of equipment beyond original specifications through modifications/machining and the installation of other than original specification parts.
Material Handling Equipment	Mechanical devices for handling supplies and equipment with greater ease and economy. Examples may include, fork lift trucks, conveyors, and straddle trucks.
Material Safety Data Sheets (MSDS)	Forms that contain information on the manufacturer, physical hazards, and chemical composition of a product.

Term	Definition
- M -	
Military Construction (MILCON)	Military Construction program projects that are approved by Congressional legislation and funded through 3300 funds.
Minor Construction	Minor construction projects are authorized by 10 U.S.C.2805. Minor construction projects are military construction projects for a single undertaking that have an approved cost equal or less than \$3 million. Minor construction projects costing \$500,000 or less are authorized to be funded from the operations and maintenance (O&M) appropriations.
Minor Finding	A departure from established standards having little bearing on service provided; however, if the same minor finding is repeatedly identified, it may be an indication that a <i>Major Finding</i> has occurred because the Contractor's quality system has not acted to prevent recurrence. In this case, the <i>Minor Finding</i> may be elevated to the level of a <i>Major Finding</i> and a new PAR with finding initiated.
Minor Modification	Approved modifications, which can be accomplished by the Contractor without incurring additional costs.
Minor Overhaul	The thorough examination and renewal of equipment to original specifications without making modifications to that equipment. (e.g., Minor engine overhaul may include the replacement of original size parts such as piston rings, valves, bearings, etc.)
Mission Essential RPIE/RPIE System	Equipment or system required for support of the mission sensor system. Any equipment or system that causes an OPSCAP RED, such as, but not limited to, HVAC chiller, computer system power, and power plant is considered mission essential.
Mission System	The mission system is the composite of all systems designed to perform assigned mission of a particular site.
Mission System Computer Equipment	All computer equipment that is directly used, or is used as backup equipment for system failures, to perform the mission is considered to be mission computer equipment. Personal computers (PCs) or computer terminals for the purpose of programming, data extraction, analysis, or other forms of software support are not considered mission computer equipment, unless it has been officially added to the sensor and/or mission computer system end items and appears in the technical orders as such.
- N -	Apy time outside of the normal duty have
Non-Duty Hours	Any time outside of the normal duty hours
Normal Duty Hours	The 40 hour work week schedule that the day-shift workers normally work is considered normal duty hours. Day shift workers usually include the managerial and administrative staff. Normal duty hours at many Government installations are Monday through Friday, 0730 hrs to 1630 hrs, with a one hour lunch, and time off for Federal Holidays. Normal duty hours may vary from site to site.

Term	Definition
- N -	
Non Mission Capable (NMC) – Red	The system or equipment doesn't meet the TO specifications; therefore, cannot accomplish its assigned mission or function. Unusable (neither in use nor available for use). The equipment must be red or amber when you order parts not mission capable supply.
Non Mission Capable Unscheduled (NMCU)	The time the system is not mission capable because of unscheduled maintenance and associated delays. Total NMCU hours is the sum of hours not mission capable because of unscheduled maintenance plus hours not mission capable because of supply delays plus hours not mission capable for both reasons.
-0-	
Operating Time	The amount of time the mission system is required to be available – 16 hours per day times the number of days in the month minus Contractor scheduled downtime. Example: Month: April (30 days) Number of Minutes: 30 x 16 x 60 = 28,800 Total Scheduled Downtime for April: 10 hours 30 minutes (Assume 2 hours 30 min were used for Cat-A testing by CMAFS in this example) O & M Contractor Scheduled Downtime in April: 10 hours = 600 minutes Operating Time for April: 28,800 – 600 = 28,200 minutes
OPSCAP	An assessment of a site's capability to perform its Space Surveillance Network (SSN) Mission as decided by the on-duty sensor operator. OPSCAP Data may be influenced by equipment status (computer/software or hardware), communications, weather, or personnel.
Operations Security (OPSEC)	The process of analyzing friendly actions attendant to military operations and other activities to: (1) Identify those actions that can be observed by adversary intelligence systems. (2) Determine indicators hostile intelligence systems might obtain that could be interpreted or pieced together to derive critical information in time to be useful to adversaries. (3) Select and execute measures that eliminate or reduce to an acceptable level the vulnerabilities or friendly actions to adversary exploitation.
Organizational Level Maintenance	The systematic, timely, and periodic inspection and servicing of equipment which results in elimination of hazard to life and property, induces maximum reliability of equipment, and creates the minimum number of major and costly repair jobs, and produces the optimum utilization of equipment throughout its serviceable life. For system maintenance it also includes minor overhaul of equipment; periodic inspection and servicing of equipment; repair or replacement of unserviceable parts, assemblies, subassemblies, and components; the local manufacture or reclamation of non-available parts; and the calibration of instrumentation and protective devices.
Outage	An interruption or failure in the functioning of a machine, system, or mechanism.

Term	Definition
- P -	
Partial Mission Capable (PMC) - Amber	System or equipment functioning in such a way that it can perform at least one, but not all, the required TO specifications and capable of supporting its missions/functions. (Impaired but usable.) Also, systems with redundant capabilities will be coded PMC when redundancy is lost, even though the system is fully capable of supporting all mission functions. Equipment must be at least amber when you order parts partially mission capable supply.
Physical Security	Actions taken to preserve property from damage or loss.
Possessed hours	The total hours in a given calendar period where assigned equipment is under the operational control of the designated operating organization expressed as possession stop date and time minus start date and time.
Power Conditioning and Continuation Interface Equipment (PCCIE)	PCCIE is defined as any of the following forms of power conditioning and continuation systems: power conditioning without continuation for use during power fluctuations, frequency changing transformers, surge suppressors, filters, and motor generators. It includes static and/or solid state uninterruptible power systems (UPS, SSUPS, or SUPS).
Preventive Maintenance	A procedure of inspecting, testing, aligning, and reconditioning equipment at regular intervals according to specified instructions. Preventive maintenance is intended to prevent failures in service or to retard deterioration.
- R -	
Real Property	A building, structure, pavement, utility, or other improvement which has a six-digit category code as found in AFI 32-1024.
Real Property Installed Equipment (RPIE)	Government-owned or leased equipment, apparatus, or fixtures which aid in the function of real property and are an integral part of Government-owned or leased real property.
Record	All books, papers, maps, photographs, machine readable materials, or other documentary materials, regardless of physical form or characteristics, made or received by an agency of the United States Government under Federal law or in connection with the transaction of public business and preserved or appropriate for preservation by that agency or its legitimate successor as evidence of the organization, functions, policies, decisions, procedures, operations, or other activities of the Government or because of the informational value of data in them. Library and museum material made or acquired and preserved solely for reference or exhibition purposes, extra copies of documents preserved only for convenience of reference, and stocks of publications and of processed documents are not included.

Term	Definition
- R -	
Recurring Maintenance	Maintenance to real property, RPIE, PCCIE, and other items of equipment for which civil engineering has the responsibility to assure continued uninterrupted operation. It is work which can be pre-identified and must be performed at specific repetitive intervals of once a year or more frequently (except daily), involving facilities, systems, and equipment.
Recurring Work	Pre-identifiable work to be accomplished within five years, two years, annually, or more frequently.
Repair	Restoration of a broken, damaged, or failed device, equipment, part, or property to an acceptable operating or usable condition or state.
Routine Tasking	Day-to-day items tasked by JspOC/18 SPCS.
- \$ -	
Scheduled Downtime	A period that is prearranged with and approved by the appropriate approving authority.
Scheduled Maintenance Outage	A break in availability or capability specifically scheduled to permit the accomplishment of preventive organization, intermediate, or depot level maintenance work.
Scheduled Maintenance	Known or predictable maintenance requirements that can be planned or programmed for accomplishment on either a short or long range schedule. This includes accomplishment of recurring scheduled maintenance, inspections and servicing, compliance with TCTOs other than the immediate action category, accomplishment of time change item replacements, and correcting deferred or delayed discrepancies. It also includes modifications and renovation projects that are programmed for depot-level maintenance.
Security Incidents	Security Incidents are Security Infractions or Security Violations as defined in AFI 16-1404. This also includes performance of industrial/information security functions and actions IAW the DD Form 254, DoD 5220.22-M and DoD 5220.22-R. All Security Infractions and/or Security Violations will fall under one of the following: Unauthorized Access, Information Technology (IT) Spillage/Classified Message Incident (CMI), Improper Classification Action, Improper Destruction, Improper Storage, Improper Transmission, Unauthorized Reproduction and Other.
Space Object Identification (SOI)	Analysis and interpretation of received sensor target data to determine the size, shape, and dynamics of an orbiting body.

Term	Definition
- S -	
Special Metric Tasking	High interest items identified and tasked by JspOC/18 SPCS.
Standard Change Form (SCF)	The sole change document for any proposed changes to the Integrated Tactical Warning and Attack Assessment (ITW/AA) system.
Successor	Contractor who is succeeding the Incumbent as the holder of the new contract being phased in. (Incumbent and Successor could be the same Contractor.)
Support Agreement (SA)	An agreement between a tenant unit operating on or near another base that provides specified services to the tenant through a mutual agreement. Funding for the services is usually provided at a higher level from the tenant's command or higher.
Sustainment of Real Property Assets	This category of work provides resources for annual maintenance and scheduled repair activities to maintain the inventory of real property assets through its expected service life. It includes regularly scheduled adjustments and inspections, preventive maintenance tasks, and emergency response and service calls for minor repairs. (The above are requirements are coordinated by the GEODSS Contractor with the Host Installation, with the exception of Det 3; for Det 3, operate, maintain and repair RP and RPIE in the GEODSS portion of building 1, GEODSS towers 14100, 14101 and 14102). It (Sustainment) also includes major repairs or replacement of facility components that are expected to occur periodically throughout the facility life cycle (identified and submitted by the GEODSS Contractor in the Five-Year Plan and accomplished by 21 CES/CECR or the Host Installation). This work includes regular roof replacement, refinishing of wall surfaces, repairing and replacement of heating and cooling systems, replacing tile and carpeting, and similar types of work. Not included is the repair or replacement of non-attached equipment or furniture, or building components that typically last more than 50 years (such as foundations and structural members). Sustainment does not include requirements funded elsewhere, such as restoration, modernization, environmental compliance, historical preservation or costs related to unexpected events.
System Requirement Validation Board	A board representing the three GEODSS sites that provides information to the 21st Space Wing Requirements Validation Board (WRVB)

Term	Definition
- \$ -	
System Software	Software that allocates, controls, monitors and supports the system's hardware resources. It includes operating system functions, utilities, and generic applications. It manages external interfaces in order to pass information as determined by the mission software. It translates mission software requests into system and hardware functions. It provides system data to mission software for processing. Software that is not specifically mission software is system software. (For example, AIS, DPS, SCS, and VSS)
- T -	
Tactics, Techniques, and Procedures (TTPs)	A tactic is the action or group of actions taken to accomplish an overall effect within the battle space. Tactics define "what" will be done in order to obtain the desired effect. Techniques are methods by which you implement a tactic. Each technique is one way of contributing to a tactic to achieve the desired effect of the tactic. Procedures are the standard, detailed steps that prescribe how to perform specific tasks. Another way to describe procedures is a set of established rules, laws, policies or guidance intended to increase the probability that actions (tactics/techniques) result in a desired outcome.
Trusted Agent	A trusted agent is an individual who participates substantially in exercise planning and scenario development but must agree not to divulge exercise confidences to potential players or others involved with the exercise.
- U -	
Unobtainable Spare Parts	Unobtainable spare parts are those that the Contractor has attempted to keep on bench stock and supply point while properly planning ahead for parts deficiencies and following the procedures within SBSS, but due to problems beyond the Contractor's control, those parts have not been delivered.
Unscheduled Maintenance	Corrective maintenance required by item conditions.
- W -	
Wing Requirements Validation Board	A board located at the site and chaired by the site commander or DO. It meets monthly to review Standard Change Forms (SCFs).

Term	Definition
- W-	
Work Classifications	One of the keys to properly programming facility requirements is work classification. Work authorization and approval levels and appropriate funding sources vary with work classification, i.e., with the type of work necessary to accomplish facility requirements in the most cost-effective manner. In general, real property maintenance work will be classified as maintenance, repair or minor construction. (See AFI 32-1032, Planning and Programming Real Property Maintenance Using Appropriated Funds, Chapter3, para 3.3 for detailed guidance or direction.)
	Maintenance (Element of Expense Investment Code (EEIC)). Maintenance refers to the day-to-day work required to preserve real property facilities and prevent premature failure or wearing out of system components. Maintenance includes work to prevent and arrest component deterioration. It also includes work required to restore components which have deteriorated, but which have not yet completely failed or exceeded their economic life.
	Repair (EEIC 522). Repair is that work required for any facility (i.e., building, utility system, or other real property infrastructure) or facility component to restore its safe, effective, and economical support of assigned missions and organizations.
	Minor Construction (EEIC 529). Minor construction projects are authorized by 10 U.S.C. 2805. Minor construction projects are military construction projects for a single undertaking that have an approved cost equal or less than \$3 million. Minor construction projects costing \$500,000 or less are authorized to be funded from the operations and maintenance (O&M) appropriation. This limit is statutory and cannot be exceeded.
	Demolition. That work required to disassemble or completely remove a real property facility. As used in this statement of work, demolition includes both the removal of the real property facility and complete cleanup and restoration of the site of the facility.