UNITED STATES SPACE FORCE (USSF)
SPACE DELTA 12 (DEL 12)
Schriever SFB, Colorado

Innovation, Integration, and Information Support (3IS) III

Performance Work Statement (PWS)

07 February 2023

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1 SECTION A - DESCRIPTION OF SERVICES/GENERAL INFORMATION

1.1 ORGANIZATION(S) SUPPORTED

The contract will primarily support Space Delta 12 (DEL 12) and its subordinate units (12 Delta Operations Squadron [12 DOS], 1st Test and Evaluation Squadron [1 TES], 3rd Test and Evaluation Squadron [3 TES], 4th Test and Evaluation Squadron [4 TES], 17th Test and Evaluation Squadron [17 TES] and 14th Test Squadron [14 TS]); Space Delta 1's, 392 Combat Training Squadron (392 CTS); Space Delta 10, OL-B (STARCOM Wargaming); Space Delta 11's Aggressor and Range squadrons (527th Space Aggressor Squadron [527 SAS], 57th Space Aggressor Squadron [57 SAS], 25th Space Range Squadron [25 SRS], and 98th Space Range Squadron [98 SRS]; and other mission partners including USSPACECOM and Space Systems Command (SSC) elements

1.2 PLACE OF PERFORMANCE

1.2.1 The primary workplace for the effort will be the Government designated facilities at Schriever SFB Colorado, the Front Range area, and geographically separated units (GSUs) at the following locations:

1.2.1.1 Buckley SFB, CO

1.2.1.2 Vandenberg SFB, CA

1.2.1.3 Cheyenne Mountain Space Force Station (SFS), CO

1.2.1.4 Colorado Springs, CO

1.2.1.5 Peterson SFB, CO

1.2.1.6 Aurora, CO

1.2.1.7 Boulder, CO

1.2.1.8 Suffolk, VA

1.2.1.9 Patrick SFB, FL

1.2.10 Kirtland AFB, NM

1.2.11 Edwards AFB, CA

1.2.12 Los Angeles AFB, CA

1.2.2 Travel

1.2.2.1 General: Travel may be required inside the continental United States (CONUS) and outside the continental United States (OCONUS) on a temporary basis to accomplish the mission. All travel will be at the direction of the Government and reimbursed/accounted for as part of the other direct costs (ODC) contract line item number (CLIN) (see paragraph 1.5.6). Contractors supporting OCONUS activities must obtain passports immediately upon hiring and ensure passports remain valid throughout the life of the contract. Approximate number of OCONUS travel days will be identified at the task order level.

1.2.2.2 Foreign Clearance Manual: All contractor travel shall be considered to be "DoD-sponsored" and will comply with the requirements found in the DoD Foreign Clearance Manual (FCM) and associated country-specific requirements in the electronic Foreign Clearance Guide eFCG).

1.2.2.2.1 The Government shall notify the contractor of a travel requirement no later than the eFCG-specified lead time (which vary by country and are normally found in Section III.D of each country's requirements) plus seven days (to allow for contractor preparation and submission of the associated eFCG requirements. While travel within the above timeframe (eFCG lead time plus seven days) is possible, the Government shall both assist the contractor as required with eFCG requirements (submitting eFCG-required justification or coordinating with travel approving officials) and assume the risk of the contractor not being able to travel if eFCG approval is not received prior to departure.

1.2.2.3 Sensitive Compartmented Information (SCI) cleared contractors: Contractors with SCI access who plan official or unofficial foreign travel shall comply with the provisions of DoDM 5105.21-V3, AFMAN14-304 and AFI71-101 and shall:

1.2.2.3.1 Report anticipated foreign travel to their contractor supervisor and the supporting Special Security Representative (SSR). The SSR shall coordinate JPAS reporting requirements per AFMAN14-304.

1.2.2.3.2 Upon completion of travel, contact AFOSI to schedule a debriefing per AFI71-101V4.

1.2.2.3.3 Obtain pre-travel briefings as identified by the supporting SSR.

1.2.2.3.4 Report any unusual incidents occurring during travel to the supporting SSR within 48 hours of return.

1.2.2.4 Special Access Programs (SAP) travel: SAP-accessed contractor personnel shall comply with the reporting requirements of Enclosure 5 to DoDM 5205.07-V2, to include pre- and post-travel reporting of both official- and non-official travel.

1.2.2.5 Synchronized Pre-deployment & Operational Tracker (SPOT). Travel under the SPOT program shall be allowed in support of contingencies, humanitarian assistance, disaster recovery operations, and other military operations or military exercises and shall be per the "DoD Business Rules for the Synchronized Pre-deployment and Operational Tracker (SPOT)" and further instructions within (which are incorporated by reference).

1.3 MISSION

1.3.1 STARCOM Space Delta 12 (DEL 12) and 12th Delta Operations Squadron (12 DOS), Schriever SFB, Colorado

1.3.1.1 DEL 12 prepares USSF forces to prevail in a contested, degraded, and operationally-limited environment through the independent test and evaluation of USSF capabilities and delivery of timely, accurate, and expert information in support of weapon system acquisition, operational acceptance, and readiness decisions.

1.3.1.2 The 12 DOS mission is to manage the cross-disciplinary processes to produce test and evaluation information for weapon system acquisition, operational acceptance, and readiness decisions to enhance space warfighting capabilities. 12 DOS manages all infrastructure and resource management functions to include command, control, communications, computers, & intelligence (C4I) architecture, information technology equipment custodian (ITEC), assessment and authorization, budget, manpower, personnel, deployments, training, facility management, finance, contracting and logistics for DEL 12. Additionally, 12 DOS manages execution of the Weapons System Evaluation Program activities on behalf of DEL 12.

1.3.2 1st Test and Evaluation Squadron (1 TES) Schriever SFB, Colorado

The 1 TES prepares USSF forces to prevail in a contested, degraded, and operationally-limited environment through the independent test and evaluation of operational-level command and control technologies and the delivery of timely, accurate, and expert information in support of weapon system acquisition, operational acceptance, and readiness decisions.

1.3.3 3rd Test and Evaluation Squadron (3 TES) Schriever SFB, Colorado

3 TES's mission is to build test capabilities and execute integrated test and experimentation to preserve and protect freedom of maneuver to, through, and from space – deliver tactical capabilities with strategic implications. 3 TES prepares USSF forces to prevail in a contested, degraded, and operationally-limited environment through the independent test and evaluation of orbital warfare technologies and the delivery of timely, accurate, and expert information in support of weapon system acquisition, operational acceptance, and readiness decisions. 3 TES conducts independent experimentation, developmental test, operational test, and tactics development for orbital warfare systems including early involvement, planning, execution, data collection, data analysis, and reporting.

1.3.4 4th Test and Evaluation Squadron (4 TES) Peterson SFB, Colorado

1.3.4.1 Mission: Test and evaluate new space spectrum and electronic warfare related space system, missile, and missile defense capabilities in operationally realistic environments to inform warfighters and influence national resource decisions. 4 TES prepares USSF forces to prevail in a contested, degraded, and operationally-limited environment through the independent test and evaluation electromagnetic spectrum technologies and the delivery of timely, accurate, and expert information in support of weapon system acquisition, operational acceptance, and readiness decisions.

1.3.5 17th Test and Evaluation Squadron (17 TES) and 14th Test Squadron (14 TS) Schriever SFB, Colorado

1.3.5.1 The 17 TES, Schriever SFB, CO; 17 TES Det 1, Buckley SFB CO, and the 14th Test Squadron (14 TS), Schriever SFB, CO perform all aspects of test screening, test planning, test execution, test analysis, test reporting and test closeout for, mainly, space domain awareness, missile defense, and missile warning operational tests and for possible developmental tests. The 17 TES conducts DOT&E oversight and sustainment & modernization force development evaluations (FDEs), operational utility evaluations (OUEs), initial operational test & evaluations (IOT&Es), follow-on operational test and evaluations (FOT&Es), qualification operational test and evaluations (QOT&Es), operational assessments (OAs), early operational assessments (EOAs), military utility assessments (MUAs), multi-Service operational test and evaluations (MOT&Es), weapons system evaluation programs (WSEPs), sufficiency of operational test reviews (SOTRs), capabilities & limitations reports (C&LRs), military utility assessments (MUAs), command-directed testing, tactics validations, and tactics development and evaluations (TD&Es) of space forces mainly in support of Headquarters (HQ) USSF and to a much lesser extent other Services such as USAF space-related operational testing.

1.3.5.2 The 17 TES seeks to enhance the military utility of space power through the Operational Test and Evaluation (OT&E) and Developmental Test & Evaluation (DT&E) of space systems. The 17 TES determines the operational capabilities and limitations of space systems as they relate to enhancing warfighting operations.

1.3.5.3 The 17 TES provides operational effectiveness and suitability evaluations from the initial employment of operational systems (oversight testing), through evolutionary tactics development, modernization, and sustainment upgrades. The 17 TES will maximize test efficiency through integrated test efforts.

1.3.5.4 The 17 TES core competencies are OT&E/DT&E, system expertise, test and evaluation proficiency, statistical analytical expertise, and test support capabilities. The 17 TES also depends on extensive teaming with program offices, operators, and weapon system leads to produce the best possible test products for senior decision makers.

1.3.6 STARCOM Space Delta 11 (DEL 11), Schriever SFB, Colorado

DEL 11's mission is to deliver realistic, threat-informed test and training environments through the provision of live, virtual, and constructive range and combat replication capability in order to prepare U.S. Space Force, Joint, and allied forces to prevail in contested and degraded operationally-limited space environments.

1.3.7 25th Space Range Squadron (25 SRS) and 379 SRS, Schriever SFB, Colorado

1.3.7.1 Mission: The 25 SRS and 379 SRS operate the Department of Defense's only Space Test and Training Range, providing customers with a safe and secure environment to support space control technique development and space test, training and exercise activities. The units also provide a timely, relevant and integrated space environment and effective mission planning, execution integration across all domains, and formalize STTR processes.

1.3.8 527th Space Aggressors Squadrons (527 SAS) and 26 SAS, Schriever SFB, Colorado

1.3.8.1 The mission of the 527th and 26th SAS is to prepare joint forces and coalition partners to fight in and through contested space environments by analyzing, teaching, and replicating realistic, relevant, and integrated space threats. The Space Aggressors execute their advanced training charter across two mission areas: Adversary Threat Academics and Adversary Threat Replication. Adversary Threat Academics focuses on the development of tailored instruction on adversary capabilities, tactics, techniques, and procedures, doctrine, and employment methodologies. Adversary Threat Replication focuses on the live, virtual, and constructive replication of threats across four mission sets: Global Positioning System (GPS) electronic attack (EA), satellite communication (SATCOM) EA, adversary SATCOM network replication, and "in-domain" orbital warfare threat replication.

1.3.8.2 The 26th SAS is a Reserve associate unit to the 527 SAS in a total force integration partnership. Both squadrons are co-located in Buildings 24 and 815.1.3.1.3 Support required includes, but is not limited to: IETC configuration management, hardware and software maintenance support, certification and accreditation support, system security, information assurance officer (IAO), sensitive compartmented information facility (SCIF) oversight, notice to airmen (NOTAM), information assurance vulnerability assessment (IAVA) monitoring, implementation and reporting as well as developing and documenting repeatable processes and procedures. These requirements are needed both within Buildings 24 and 815.

1.3.9 57th Space Aggressor Squadron (57 SAS), Schriever SFB, Colorado

1.3.9.1 The 57 SAS mission is to instill an adversary-focused warfighting culture by knowing, teaching, and replicating modern, emerging, and integrated space threats via adversary threat academics and virtual/live replication of adversary space and counterspace threats. The 57 SAS executes their mission in order to develop Guardians to prevail in competition and ultimately prepare a combat-credible Joint Force to deter war, and should deterrence fail, to fight and win our Nation's wars in, from, and to space.

1.3.10 98th Space Range Squadron (98 SRS), Schriever SFB, Colorado

1.3.10.1 Mission: The 98 SRS Provides a safe, secure, operationally-representative live on-orbit test and training environment to develop lethal, agile, and resilient joint warfighters. The Orbital Warfare Range of the National Space Test and Training Complex (NSTTC) provides Space Domain Awareness, Time Space Position Information data, safety of flight, and security in support of training, test, and experimentation activities for the USSF and designated partners.

1.3.11 STARCOM Space Delta 10 (DEL 10), OL-B (STARCOM Wargaming), Schriever SFB, Colorado

1.3.11.1 STARCOM Wargaming manages the USSF Chief of Space Operations (CSO) Schriever Wargame and other associated wargame events. This includes support to US Code (USC) Title 10, Title 50, Office of the Assistant Secretary of Defense for Space Policy (ASD(SP)), USSF, and other identified wargames (approximately 16 events per year). These integrated efforts require support in the following areas: information technology, systems integration, mission development, operations support, communication, security, and other support to STARCOM Wargaming. STARCOM Wargaming hosts a series of events in support of the Schriever Wargame Series conducted annually with events culminating in a Schriever Wargame Capstone event. Additional wargame events in support of STARCOM are yet to be determined and will be manpower- and calendar-dependent. The purpose of the wargame activities is to provide an opportunity to investigate issues and implications of the political-

military relationships and space system employment through management and sponsorship of an international, multi-domain, multi-agency wargame centered on space and cyberspace within the larger DoD-wide, allied, and NRO wargaming activities. In coordination with the Government Wargame Director, the contractor shall design and develop wargame materials including but not limited to objectives, scenarios, road-to-crisis, organizational structures, and campaign plans. During the planning phases of the Schriever Wargame, several workshops and seminars shall be planned and executed with the goal of developing a baseline structure to support the actual execution of the wargame capstone. Additionally, the contractor will support simultaneous and similar planning and development of the higher-level, 4-nation Combined Technical Operations Center (CTOC) and US Technical Operations Center (USTOC) cells within the wargame construct.

1.3.12 STARCOM Space Delta 1 (DEL 1), 392d Combat Training Squadron (392 CTS), Schriever SFB, Colorado

1.3.12.1 The 392 CTS provides space combat training through live, virtual, and constructive environments to prepare warfighters to win.

1.3.12.2 The 392 CTS:

1.3.12.2.1. Coordinates with SpOC, STARCOM, NRO and the 1st Delta Operations Squadron to execute the USSF Exercise Plan in support of USSF, multi-service, joint, interagency, and allied exercises.

1.3.12.2.2. Provides combat training planners and instructors to lead, plan, execute, and act as the executive agent for the development and execution of USSF exercises, and also USSF participation in multi-service, joint, interagency, and allied exercises. 392 CTS combat trainers will champion service level training objectives, develop scenarios and events in support of those training objectives, and will participate as exercise controllers, trusted agents, and leaders during exercise planning and execution.

1.3.12.2.3. Serves as the executive agent for the Secretary of the Air Force-sponsored SPACE FLAG exercise. In coordination with SpOC and other entities, the 392 CTS will plan and execute all SPACE FLAG exercises, to include scenario development, and will also coordinate modeling and simulation support, as required.

1.3.12.2.4. Operates a distributed mission operations center to provide space modeling and simulation in support of approved training, exercise, test, experimentation, and mission rehearsal events.

1.3.12.2.5. Provides advanced training to support the Weapons Instructors Course (WIC) and Advanced Instructors Course (AIC).

1.3.12.2.6. Recruits instructors from various enlisted and officer space operator career fields and assignments, and develop instructors via a training, certification, and evaluation program for all 392 CTS mission sets to ensure the CTS provides world-class training.

1.3.12.2.7. When appropriate, develops and maintains reserve association plans, memorandums of agreement, and memorandum of understanding in coordination with USSF and AFRC.

1.3.12.2.8. Provides subject matter expertise supporting the maturation of Space Delta 1.

1.3.13 Other Supported Organizations

1.3.13.1 **310th Space Wing (310 SW), Schriever SFB, Colorado**

1.3.13.1.1 The mission of the 310 SW is to provide combat ready citizen Airmen to conduct and support space operations with strategic expertise and depth.

1.3.13.2 **United States Space Command (USSPACECOM), Schriever SFB, Colorado**

1.3.13.2.1 Mission: The USSPACECOM mission is to deter aggression and conflict, defend U.S. and allied freedom of action, deliver space combat power for the Joint/Combined force, and develop joint warfighters to advance U.S. and allied interests in, from, and through the space domain.

1.3.13.2.2 USSPACECOM requires support for information technology, exercises, and real world contingencies. In the future, USSPACECOM may need support for security requirements, Program Management, Rapid Acquisition, and Test and Evaluation. It is possible in a real-world event that the entire battle staff will be activated within building 24 requiring support from the contractor. Battle Staff personnel includes GO/FOs performing Assessor Duties when on duty or when an issue related to their duties arises. USSPACECOM Mission Essential Support requirements will be established at the task order level. (CDRL A010 - Mission Essential Support).

1.3.13.3 **Space Rapid Capabilities Office-SOF (SpRCO/SOF), Schriever SFB, Colorado**

1.3.13.3.1 The Space RCO mission is to develop and deliver operationally dominant space capabilities at the speed of warfighting relevance. We expedite delivery and deployment of space capabilities in response to the Commander, US Space Command requirements as assigned by our Board of Directors

1.3.13.4 **Space Systems Command Space Domain Awareness Division (SSC/ECG), Schriever SFB, Colorado**

1.3.13.4.1 Mission: SMC/SPG provides Space Domain Awareness (SDA) services and capabilities to warfighters, analysts, and systems enabling the space domain, while also supporting the broader joint and multi-domain mission. ISSA is a Government-owned suite of software capabilities managed by SMC/SPG. ISSA uses high-power analysis and visualization capabilities to provide SDA Course of Action development, threat processing, and sensor tracking. Modeling and Simulation (M&S), and cutting edge Machine Learning and Artificial Intelligence technologies and software, including software tools as part of operational baselines by USSPACECOM operational centers, and as part of the operational baseline for the Maritime Operational Center. ISSA has numerous active web-based users on classified networks including a broad range of DoD and civilian Federal agencies.
Joint Task Force – Space Defense (JTF-SD)

1.4 DESCRIPTION OF SERVICES/SPECIFIC REQUIREMENTS

1.4.1 **Security Requirements**

1.4.1.1 The contractor shall require access to secret collateral, top secret-sensitive compartmented information (TS/SCI), SAP/SAR, and other special category data during the performance of various tasks in this contract. At a minimum, ninety percent (90%) of contractor employees are required to obtain and maintain TS/SCI clearances.

1.4.1.2 The contractor shall obtain and maintain the security requirements necessary to propose for this contract in accordance with (IAW) the DD Form 254 and DoD Manual 5200.01. Duties include all integrated security disciplines; personnel, physical, industrial and information system security disciplines. The contractor shall coordinate daily visitor lists and requests for meetings and conferences to be held within the facility; process program access requests (PARs); provide on-site security support to meetings and conferences; process SCI fax materials; support courier-related duties such as wrapping, receipting, destroying, and distributing classified

materials; and provide support in maintaining classified databases and SCIF operations. In addition, the contractor shall perform escort duties for non-cleared individuals requiring access to secure areas. General administrative duties shall be performed to include taking inventories of equipment and other administrative tasks. The contractor shall provide support in conducting inspections for program compliance with customer requirements; present administrative briefings to conferences and meetings when required; properly secure SCIFs; and comply with all security-related processes, to include communications security (COMSEC), operations security (OPSEC) AFI 10-701 (Chapter 8), and information security (INFOSEC) duties.

1.4.1.2.1 Alternative Compensatory Control Measures (ACCMs): While AFI 16-1404 specifies that ACCMs are not authorized for use in the Air Force, Contractor performance may nevertheless require participation in the Joint Staff Focal Point Program (FPP) and access to Alternative or Compensatory Control Measures (ACCM) information in accordance with DoDM 5200.01, Vol 3 and CJCSM 3213-02D. Handling of ACCM/FPP information will be done "onsite" at government facilities only.

1.4.1.3 The contractor shall be compliant with the International Traffic in Arms Regulation (ITAR) with respect to release of information.

1.4.1.4 The contractor shall implement an industrial security program in support of the entire Innovation, Integration, and Information Support III **(**3IS III) contract that shall include their subcontractors IAW established DoD policy and procedures.

1.4.1.5 The contractor shall complete and comply with the long-term Visitor Group Security Agreement (VGSA) upon contract award.

1.4.1.6 The Government will provide initial and follow-up security procedures training to contractor personnel who work in controlled and restricted areas.

1.4.2 **Program Management, Administrative, Security, Personnel, Logistics, and other Support**

1.4.2.1 **Program Management**

1.4.2.1.1 The contractor shall perform program management by providing and orchestrating resources, financial management, administering contract actions, monitoring performance, making recommendations for improvement, supporting meetings, and preparing deliverables (Contract Data Requirements List (CDRL) A001 – Contractor's Progress, Status, and Management Report, CDRL A003 - Cost Performance Report, CDRL A004 – Contract Funds Status Report, CDRL A005 – Management Plan).

1.4.2.1.2 The support contractor shall perform program level management, integration, cross utilization, control, and oversight of all related contractor/sub-contractor activities. Program management shall include the responsibility to assure satisfactory technical performance, program risks, oversight of schedules, costs, administration, security, reports, reviews, and similar functions and activities associated with this contract PWS. The contractor PM shall be the single interface to the 3IS III PM for program management activities and communications concerning the multi-function teams (MFT).

1.4.2.1.3 The contractor PM shall identify and recommend specific program/task tracking and reporting software applications to be used in the performance of program management responsibilities. The contractor PM shall use government-off-the-shelf (GOTS) and/or commercial-of-the-shelf (COTS) applications to the maximum extent possible in support of this contract.

1.4.2.1.3.1 The contractor PM shall maintain the approved management plan (CDRL A005) as required for Government approval. The management plan shall include specific references to the contractor's organizational conflict of interest (OCI) plan regarding interfaces and existing or potential duplication for operational assessment and support of overall contract tasks. The management plan shall address the program management structure; the approach to be used for program management support; the reporting, administrative, and accounting mechanisms to be employed in managing the program; and, the management methodology/techniques/organizational structure used

to control program execution activities under all task orders issued under the PWS cited above to include subcontractor management plans and activities.

1.4.2.1.3.2 The contractor shall identify “leads” (or whatever designation the contractor chooses) for the individual tasks/units supported on this contract. The “leads” shall be identified/accounted for under this PM task.

1.4.2.1.3.3 The contractor shall perform day-to-day contract administration. Contract administration includes responding to TPRs, implementing contract modifications and changes, negotiations, and participating in technical interchange meetings (TIMs).

1.4.2.1.3.4 The contractor shall provide timely and accurate financial management to include: cost status and forecast data, pricing data, purchasing, invoicing, and travel management; proactively identifying potential mission impacts and offering possible action plans.

1.4.2.2 **Task Coordination**

1.4.2.2.1 The contractor shall provide technical integration and resource management for tasks to include cross-task and reach-back integration for additional technical services, system engineering, and analysis and evaluation of initiatives. Management of the contractor’s support resources, including travel and ODCs (see paragraph 1.5.6); interface with the Contractor Program Manager (CPM) to verify availability of funding prior to travel and support the primary task support personnel with equipment procurement issues; and keep the Contracting Officer Representatives (COR) informed of resource issues that may affect the performance of the task and recommend courses of action to mitigate problems.

1.4.2.2.2 Interface between the Government and management staff to expedite changes and modifications to include realignment of funds, level of effort adjustments and addition of in-scope effort.

1.4.2.2.3 Program, develop, maintain and deliver a database of all lessons learned. The database shall include all lessons gathered from project officers during the course of project execution and close-out.

1.4.2.2.4 **Contract Transition.** The contractor shall transition into and out of this contract without degradation of service to any of the supported organizations. (CDRL A008 – Transition).

1.4.2.2.5 **Phase-In.** The contractor shall meet with the 3IS III Program Manager (PM) and the Government phase-in team not later than three (3) days after contract award. The contractor shall develop and implement a Phase-In Plan IAW CDRL A008. The Phase-In Plan shall address at a minimum all issues identified in the incumbent contractor’s Phase-Out Plan.

1.4.2.2.6 **Phase-Out.** The contractor shall develop and implement a Phase-Out Plan. The Phase-Out Plan shall address all areas, issues, and concerns required for a smooth transition. A Phase-Out Plan shall be prepared and submitted no later than 90 days prior to contract expiration or within 30 days of the Contracting Officer’s (CO) request.

1.4.2.2.7 **Status Briefings and Readiness.** The contractor shall provide weekly briefings on Phase-In status to the Government PM, CO and the Phase-In team, discussing problems encountered in accomplishing the Phase-In, categorized as minor, major, or showstoppers; progress-to-date with schedule updates to reflect the actual progress; any variances from efforts contained in the Phase-In Plan; any work-around plans being implemented to resolve problems and any support needed from the Government for the Phase-In.

1.4.2.3 **Security**

1.4.2.3.1 Building 24 is classified as a Protection Level (PL) 4 Controlled area, which requires restricted access to protect multiple levels of classified information and material (up to 7 different levels). Security level will be identified at the task order level. The contractor shall provide overall security office and general security program support for all mission partners. Task orders for security may be at the Command or unit level.

1.4.2.3.2 Contractor personnel will not detain or control unauthorized personnel seeking to gain access to our facilities but will immediately notify Security Forces in such situations.

1.4.2.3.3 **Administrative Security Support**. The contractor shall perform security administrative support at the appropriate security level to include but not limited to in/out processing, preparing and maintaining security forms, processing and maintaining visitor access requests, security indoc/debriefings, badging, DD Fm 254s, security inspections, proper security classification markings, assisting Emergency Management Plan, maintaining security records, supporting Antiterrorism Force Protection program and other administrative support.

1.4.2.3.4 **Special Security Representative (SCIF) Management.** The contractor shall validate clearances of personnel, administer existing annual training program, maintain DoD standards for SCIF operations, perform SCIF inspections, and other SCIF administrative support.

1.4.2.3.5 **Information Systems Security Officer (ISSO).** The contractor shall be responsible for ensuring the operational security of approximately 100 non-networked, individual systems at all classification levels within SCIF areas. The duties and responsibilities shall be commensurate with those of an ISSO as described in DoD Intelligence Information System (DoDIIS) – Joint Security Implementation Guide (DJSIG), security directives as noted in the Publications list, standard operating procedures, and Space Base Delta 1 (SBD 1) Emergency Action Plan.

1.4.2.3.6 **Information Protection.** The contractor shall be required to perform the following duties:

1.4.2.3.6.1 Assist in providing appropriate visitor credentials utilizing JPAS/ Scatter Castles to Building 24 POCs prior to them escorting visitors into the Building 24 Controlled Area.

1.4.2.3.6.2 Participate in the development of Security CONOPS and OIs as they relate to the operation of Building 24 in conjunction with the security office.

1.4.2.3.6.3 Perform periodic Information Protection (IP) inspections in IAW current guidance in non-SCIF areas on security containers and combination locks and conduct combination changes on cipher locks and other in-use dial combination locks. Notify the in-house Facility Manager when issues are identified. (AFI 16-1404 2.7.11. And 5.2.4)

1.4.2.4 **Facilities Services.** The contractor shall inspect conditions and report any issues to the COR and coordinate with Civil Engineering (CE); attend facility working group meetings; troubleshoot, schedule, and coordinate with CE for maintenance and projects; provide escort services for outside vendors; provide subject matter expertise for facility management reviews and evaluation of projects; and coordinate schedules with tenants within Building 24.

1.4.2.5 **Supply Services.** The contractor shall issue, maintain, and inventory all supplies and non-IT equipment; provide shipping and receiving services when operating the loading dock; coordinate commercial air and ground shipments; coordinate property disposal activities, support building recycling program; review/analyze/maintain supply and logistics database; coordinate with Government UDM to support deployments; and support hazardous materials and environmental requirements.

1.4.2.6 **Personnel Support.** The contractor shall provide office of personnel management support services to include but not limited to unit manning documents, personnel management rosters, organizational change requests, in/out processing personnel, Newcomer Orientation, Organizational Defense Travel Administration, unfavorable information files, awards/recognition program, officer/enlisted performance reports, transaction register, military

personnel data system update, permanent change of station, separations, retirements, enlisted and officer promotion actions, Virtual Personnel Center, leave program, and other miscellaneous support.

1.4.2.7 **Administrative Support.** The contractor shall provide support to mail and distribution, task management (TMT), conference room and video teleconference scheduling, schedule management, records management, travel administrator, rosters, and coordinating/editing documents (i.e., briefings, letters, reports).

1.4.3 **392 CTS Support**

The contractor must possess current knowledge in the following areas: Space system capabilities, space intelligence and adversary capabilities, M&S systems operations (see Appendix E for a list of M&S systems), communications systems and distributed architectures, exercise design, development and execution, software and network engineering. In support of 392 CTS mission, the contractor shall support exercises as defined in the USSF Service Exercise Plan (SEP) and other 392 CTS events (experiments, demonstrations, warfighter focused events, etc.). (CDRL A002 – Developmental Design Drawings and Associated Lists, CDRL A009 – Scientific and Technical Reports).

1.4.3.1. **In support of Mission activities, and at the Government's direction, the contractor shall:**

1.4.3.2. Operate existing and future systems capabilities and architectures in support of advanced training, demonstrations, special event assessments, exercises, and real-world contingency operations. Flexible work schedules, including 24-hour/7-day operations, shall be required periodically to support exercises, demonstrations, experiments, and contingencies according to a mutually agreed upon schedule. Maintain detailed system expertise on all aspects of operating 392 CTS M&S and Command, Control, Computer and Communications (C4I) equipment.

1.4.3.3. Lead, plan, develop, and execute exercises, experiments and training events involving multiple service and/or joint organizations by gathering information, coordinating with key players internal/external to 392 CTS and integrating their inputs, developing databases for 392 CTS, M&S, C4I systems, identifying exercise network and 392 CTS system requirements and developing space-related scenario requirements and events to meet player training objectives.

1.4.3.4. Lead, plan, develop, and execute training scenarios for all mission rehearsals and training internal to space forces and, if necessary, the interface to other DMO domains. This shall include the generation of virtual and constructive space effects that are synchronized with the scenario events. 392 CTS will coordinate all intra- and inter-domain requirements with other distributed training sites when required.

1.4.3.5. Lead, plan, develop, and execute exercises, experiments, and training events involving multiple service and/or joint organizations by installing exercise-specific databases in 392 CTS M&S and C4I systems; configuring the systems as required to operate on the exercise network; monitoring the systems performance and making adjustments as required by changes in the scenario; and acting as exercise controllers/system experts at the main exercise sites.

1.4.3.6. Control 392 CTS exercise and event inputs as a member of the 392 CTS exercise control group (ECG), or in coordination with the host exercise control group (ECG), whose function is to maintain control of the timing, tempo and execution of the event to accomplish the desired training objectives.

1.4.3.7. Be prepared to emulate Higher Headquarters (HHQ) or other external organizations/ agencies not participating in an event (white cell).

1.4.3.8. Lead, plan, develop, and execute USSF participation in USSF, CJCS, CCMD, USAF and other Services exercises. For each event, develop schedules, plans and briefings; coordinate/monitor activities, and report on those activities through trip reports, briefings, meeting minutes, etc. As required, the contractor will participate during exercise execution as part of the exercise control group providing oversight, management and control of space and cyber events for the exercise.

1.4.3.9. Lead, plan, develop, and execute SF, Space Force level exercises, other significant advanced training events, or other USSF led exercises that focus on enhancing the combat readiness of warfighting forces. For each event, develop schedules, plans and briefings; coordinate/monitor activities, and report on those activities through trip reports, briefings, meeting minutes, etc. The contractor will participate during exercise execution as part of the exercise control group providing oversight, management and control of all events for the exercise.

1.4.3.10. Trip reports are required immediately at the end of conferences/meetings and exercise execution. Pre-IPC/CDC briefs are due 30 days prior to IPC/CDC. Exercise Readiness Review (ERR) briefings are required no later than 30 days prior to exercise execution. Execution Executive summary first duty day after exercise completion. Exercise quick look due NLT first Wednesday post execution. After Action Reports (AARs) are required within 30 days from the end of each exercise.

1.4.3.11. Assist 392 CTS in leading, planning and/or the conduct of Exercise Coordination Team (ECT) meetings.

1.4.3.12. Coordinate with Space Operations Command (SpOC), Space Readiness and Training Command (STARCOM), National Reconnaissance Office (NRO), Office of the Chief Operations Officer Deputy Director of Force Generation (SF/S7O), Joint Staff J7, United States Space Command J7, Air Force Reserve Command space associate units, and National Guard Bureau space units for each exercise and experiment. Coordinate all advanced training and manning requirements in accordance with STARCOM, DEL 1 and 392 CTS guidance and intent. The contractor will present training scenarios consistent with real world, day-to-day campaign threat conditions.

1.4.3.13. Perform maintenance and sustainment in support of DMO-S capabilities, DMO requirements, training scenarios and required databases. Provide maintenance, upgrades, and sustainment of the DMO architecture and system backbone in coordination with applicable government organizations.

1.4.3.14. Establish liaisons with key players from other DMO domains determined by the Government, collaborate with Government and other contractor teams that are supporting DMO-S development, primarily to accommodate data collection, obtain GOTS technologies and leverage best practices, procedures, and techniques.

1.4.3.15. Provide necessary daily support to set up, tear down, integrate, test, operate, and troubleshoot DMOC-S equipment and infrastructure supporting exercises, experiments, demonstrations, and training. Support may be required both in 392 CTS and at non-392 CTS locations.

1.4.3.16. Support the identification and coordination of resource requirements for the 392 CTS.

1.4.3.17. Identify design risks and support studies of hardware and software to provide the 392 CTS with solutions for DMO-S capabilities.

1.4.3.18. Support development of 392 CTS to enable it to provide an operational advanced training architecture that shall ensure a realistic combat representative training environment for space forces in each mission area to exercise sensor to decision-maker interfaces. This shall include development of new M&S and crew simulation systems. (CDRL A006 – Software Product Specification (SPS), and CDRL A007 - Computer Software Products).

1.4.3.19. Provide technical expertise to the Government for evaluating new M&S tools and crew simulators being developed by outside contractors.

1.4.3.20. Support within existing capability any demonstrations, tests and/or special event assessments involving new space M&S and simulator systems by assisting in defining requirements, test plans and assessing the results.

1.4.3.21. Coordinate resolution of intelligence-related advanced training and exercise issues.

1.4.3.22. Ensure intelligence plans and operations inform the design of 392 CTS mission activities, and will draft appropriate intelligence background messages and intelligence-related injects into 392 CTS advanced training and exercises.

1.4.3.23. Lead the critical lessons learned program that discovers and validates observations, conducts and in-depth review to resolve valid observations, monitors and evaluates resolved observations, and disseminates lessons learned.

1.4.3.24. Support institutionalization for internal USSF lessons.

1.4.3.25. Use active (push) and passive (pull) methods to disseminate lessons to key mission partners.

1.4.4 **Test and Evaluation (T&E).** At the Government's direction, the contractor shall support:

1.4.4.1 **T&E.** In support Operational Test & Evaluation (OT&E) and Developmental Test & Evaluation(DT&E) early involvement; test screening; integrated testing (DT&E, OT&E, and contractor testing) and dedicated DT&E and OT&E planning, execution, analysis, reporting, and closeout for DT&E tests, Production Acceptance Test & Evaluation (PAT&E), Product Qualification Testing (PGFT), Live-Fire Test & Evaluation (LFT&E), FDEs, OUEs, OAs, EOAs, WSEPs, SOTRs, IOT&Es, FOT&Es, QOT&Es, MUAs, C&LRs, MOT&Es, command-directed testing, and TD&Es in support of USSF weapons systems and programs the contractor shall: (CDRL A009 – Scientific and Technical Reports; CDRL A011 – Briefing Materials; CDRL A012 – Conference Minutes; CDRL A013 – Presentation Materials; CDRL A014 – Technical Reports – Study/Services; CDRL A015 – DoD M&S Accreditation Plan; CDRL A016 – DoD M&S Accreditation Report; CDRL A017 – Critical Task Analysis Report). Workload data will be documented at the task order level.

1.4.4.1.1 Possess current knowledge, understanding, and experience in the following areas: DoD, USSF, and AF OT&E and DT&E policies, procedures, and requirements for providing independent testing and evaluation of new and existing space systems in an operational environment. Personnel should possess in-depth knowledge and experience with all aspects of space systems including both space and ground segments. The contractor should have experience with test scheduling, test early involvement activities, test planning, execution, analysis, reporting, closeout activities of space systems; scientific test and analysis techniques (STAT); Design of Experiments (DOE), combinatorial testing, observational studies, covering arrays, deterministic testing, and descriptive and parametric/non-parametric statistics. In support of the Delta 12 test squadrons the contractor shall:

1.4.4.1.2 Support modernization and sustainment testing for WSEP and Space C2 associated systems at 1 TES, Det 4, Vandenberg SFB, CA in the role of contractor test analyst, test director, assistant test director, operations research analyst, test tool developer, technical writer, and/or data collector.

1.4.4.1.3 Support annual tests in support of 1 TES, Det 2, Cheyenne Mountain SFS, CO in the role of contractor test analyst, project manager, assistant project manager, and/or data collector and/or test tool developer.

1.4.4.1.4 Support annual tests in support of DEL 12 Test and Evaluation Squadrons in the role of contractor test analyst, test director, assistant test director, WSEP evaluation director, data collector, and/or test tool developer. Test Analysts supporting DEL 12 will require SAP/SAR clearance to conduct test planning, execution, reporting, and analysis and closeout.

1.4.4.1.5 Additional test support for DEL 12 test squadrons will be added via contract modification as requirements are identified and funds become available.

1.4.4.2 **Test Planning.** In support of test planning, and at the Government's direction, the contractor shall:

1.4.4.2.1 Lead or provide support in all aspects of test planning: support the test planning review process and managing manpower, funding, and test assets within test scope; conduct and accomplish Verification, Validation and Accreditation (VV&A) of models and simulations required for testing; participate in test planning working groups to identify and resolve test issues; and be available to travel during test planning and/or execution.

1.4.4.2.2 Lead or provide support in the development of test measures in the form of Critical Operational Issues (COIs), Objective Capabilities, Measures of Effectiveness (MOEs), Measures of Suitability (MOSs), and Measures of Performance (MOPs). The contractor shall develop a Data Management and Analysis Plan (DMAP), format prescribed by the TES, to document measure methodology, statistical methods, expected outcomes, sample sizes, definitions, etc.

1.4.4.2.3 Lead or provide support to all test planning sub-phases including developing the initial test approach, developing a feasible test concept, and the executable test concept.

1.4.4.2.4 Lead or provide support to the following: Analysis reviews (e.g., ARCs), ARC Decision Memorandums, Test Planning Reviews (TPRs) to include developing and giving TPR briefings, Combined Review Boards (CRBs) to include developing and giving CRB briefings and producing draft CRB minutes, developing statement of requirements and identified test standards, Test Readiness Review Boards (TRRBs) to include developing and giving TRRB briefings, integrated testing execution/data collection and design, Government led line-by-line reviews of test products (e.g., test plans and final reports/briefings), Joint Reliability and Maintainability Evaluation Team charters, Test Data Scoring Board procedures, accomplishing AF Forms 813 and 4437, customer briefings, site in-briefings, coordinating test site cybersecurity team site surveys and test execution assessments visits, and other test planning meetings.

1.4.4.2.5 Use Scientific Test and Analysis Techniques (STAT) whenever feasible and consistent with available resources. STAT will be used for designing and executing tests, and for analyzing the subsequent collected test data. Three specific STAT the contractor shall be able to utilize is DOE, covering arrays, and combinatorial testing. The contractor shall develop and deliver test methodologies for each test measure with the purpose of performing statistical analysis to evaluate system performance and acquire validated truth data for these test measures. Test methodologies may include determining optimal sample sizes through power analysis and expected data distributions. Statistical analysis shall include descriptive and inferential statistics such as determining central tendencies, calculating confidence values and point estimates, non-parametric techniques, and conducting hypothesis testing. The contractor shall develop a STAT Tool as prescribed by each TES for each test or test event unless waived or modified by the government.

1.4.4.2.6 Acquire, design, develop, and deliver both test approaches and tools to collect, reduce, and analyze test data. Test approaches may include scenario injection, M&S, or real-world system operations.

1.4.4.2.7 Design, develop, and deliver analytical software tools (to include ensuring these tools are verified and validated) and Detailed Test Procedures (DTPs) to evaluate test measures based on the collected data and validated truth data. If specific tests fail criteria, develop and deliver backup procedures (e.g., re-test in real-time or provide an alternate procedure).

1.4.4.2.8 Develop and administer surveys and conduct focus groups for the operators and maintainers for each System Under Test (SUT). These surveys are subjective assessments for a specific SUT suitability area. The scope of these surveys may include hardware and/or software suitability (e.g., maintainability, usability, supportability and compatibility), user suitability (e.g., training and human systems integration), safety, interoperability, documentation, transportability and logistics.

1.4.4.2.9 Lead and/or provide support in the development and coordination of test planning documents, Test & Evaluation Master Plans or test strategies, Deficiency Report Plans, detailed test plans, test concept briefings, test strategy briefings, response to program office readiness to test memorandums or equivalent documentation, test planning briefings, test team charters, and test-related Memorandums of Understanding/Memorandums of Agreement (MOUs/MOAs).

1.4.4.2.10 Submit test documents in standard test format in accordance with DAF, USSF, and USAF standards IAW DAFI 99-103; AF TO 00-35D-54; 1, AFH 33-337; Delta 12 and appropriate test unit templates and guidance.

1.4.4.2.11 Travel, as directed by the Government, to support site surveys, customer briefings, observations of developmental testing, integrated testing, Integrated Test Team (ITT) or Training Integrated Product Team (TIPT) meetings, and other working groups in support of test planning and execution.

1.4.4.3 **Test Execution.** The contractor shall support test execution with data collection, data analysis, survey administration, and other tasks such as DTP revisions; participate in test execution meetings and boards; and record meeting minutes. These meetings and boards include the Test Data Scoring Board, Joint Reliability and Maintainability Evaluation Team, DORBs, and Deficiency Review Boards (DRBs). The contractor may also be required to travel during test execution.

1.4.4.4 **Test Analysis.** The contractor shall evaluate each test measure and assess system performance using the collected test data and surveys, the validated truth data, and the methodologies and tools developed during test planning. The contractor shall also attend Vulnerability (cybersecurity) Review Boards and incorporate the Board's findings into analysis reports. The contractor shall develop a Detailed Analysis Report (DAR), as prescribed by the supported TES, to document analyzed test data and deficiency reports, and provide conclusions and recommendations

1.4.4.5 **Test Reporting and Closeout.** The contractor shall develop and coordinate test reporting documents and test report briefings; present the evaluation results to the unit leadership for review; and ensure all documents comply with government standards (see paragraph 1.4.4.2.10). Test reporting documents include the test reports/briefings and, if required, interim test reports and briefings. The contractor, when directed by the government, will complete test closeout actions such as archival of government prescribed test document; produce, document, and brief lessons learned; and archive raw test data and surveys.

1.4.4.6 **Operations Research Support.** The contractor shall provide an Operations Research Analyst (ORA) contractor, to conduct a rigorous review of all planned test measures and post-test analysis to ensure STAT, such as DOE, covering arrays, and combinatorial testing, are applied and properly executed within the Data Management and Analysis Plan (DMAP) and Detailed Analyst Report (DAR). In addition, the ORA (or equivalent) will review and ensure data collected during testing is fully leveraged using STAT to rate test measures and provide addition SUT performance characteristics. Additional tasks expected of the ORA are to develop software scripts to accelerate analysis and reporting timelines, assist with data mining techniques; when directed by the Government review, edit, and make relevant (updates and additions to squadron analyst's guidebook(s); develop and present at least four relevant STAT briefings annually (topics directed by the Government) during unit Analysis Forums; and ensure Government directed changes (documented in Analysis Decision Memorandums or equivalent document) to post-DMAP, post-DAR, and WSEP reporting documents (e.g., mission reports, briefings, and other reports) are resolved to the satisfaction of the Government, and review test planning and reporting documents for accuracy (calculations) and correctness (supporting verbiage) before submitted to the government.

1.4.4.7 **Dedicated Supervisor.** The contractor shall provide an experienced test analyst to supervise the test analyst workforce, support Government directed early involvement activities, and, when agreeable by the Government, accomplish test analyst tasks.

1.4.4.8 **Software Tool Developer.** The contractor shall provide a software tool developer able to program (e.g., macros and utilize in programs such as MATLAB, JMP Standard, JMP Pro, Microsoft Word, Python, Microsoft Excel, Microsoft Access, and Microsoft Project) and develop software tools for test planning, test execution, and to assist in the collect, reduction, and analysis of test data.

1.4.4.9 **Cybersecurity Tester.** The contractor shall provide a cybersecurity expert to recommend and justify cybersecurity test strategies, create, and execute cybersecurity DTPs, analyze cybersecurity test reports, create and defend cybersecurity deficiency reports, coordinate visits by cybersecurity test teams, conduct site surveys, and/or provide cybersecurity analysis and input for test products such as the DMAP, test plans, readiness briefings, DAR, and final reports/briefings.

1.4.4.10 **Technical Writer.** The contractor shall provide a technical writer to review all test products prescribed in the Delta 12 and test squadron guidance before higher government-level reviews. The contractor shall follow format and style guidance provided in the appropriate test squadron guidebook (e.g., *17th Test and Evaluation Squadron Operational Test Document Style Guide*, AFH 33-337 *The Tongue & Quill,* etc.).

1.4.4.11 **Scheduler.** The contractor shall provide support in the development and maintenance of an integrated master test schedule for all Delta 12 and/or test squadron test programs based on Microsoft Project or other similar test and evaluation unit approved software. The contractor shall develop reports based on the directed test events/milestones and other data inputted into the scheduling software.

1.4.4.12 **Contractor Training.** All contractor test analysts shall successfully complete the following training courses (or equivalent as determined by the Government): Delta 12 Initial Qualification Training (IQT), test squadron Mission Qualification Training (MQT) for each contractor test position (as government directed), Science of Test (SOT) 210/Introduction to DOE, SOT 310/DOE I, or other test or statistically-related equivalent courses as created and/or directed by the Government. In addition to the courses all contractor analysts must take, the OR specialist shall successfully complete the following additional courses (or equivalent as determined by the Government): DOT 410/DOE II and DOE III. Training should normally be completed within three (3) months pending class availability, except for the ORA, who should normally complete all their classes within ten (10) months. Contractor attendance of the course will be based on government approved dates.

1.4.4.13 **Training Support.** The contractor will assist, as required, the Government with a training support/specialist(s) to create Government approved Delta 12 and test squadron unit training materials, provide instruction, and assist in organizing and setting up, formal and informal, Delta 12 and test squadron training courses and training topics.

1.4.4.14 **Operations Review Panel.** The contractor shall provide support to the Operations Review Panel (ORP) items by reviewing and providing written comments to ORP initiatives or submitting test process initiatives to the ORP when desired.

1.4.4.15 **Test Status of Funding.** The contractor shall conduct a monthly meeting to brief and provide funding status for each squadron task order.

1.4.4.16 **Analysis Forums.** Each contractor test analyst, Test Director, Assistant Test Director, and OR Analyst contractor will attend half-day Analysis Forums (approximately 4 annually). Each test analyst is expected to brief pertinent and government approved test analyst topics, software test tool, and/or lessons learned annually.

1.4.4.17 **4 TES Requirements**: The contractor shall provide technical services to 4 TES through analytical, engineering, cyber and space subject matter expertise for all 4 TES programs through all phases of the test process. Currently 4 TES supports multiple programs including, but not limited to: space systems, satellite command and control systems, satellite communication ground equipment, and Special Access Programs. Also provide administrative support, technical writing support, Information Technology (IT) security/support, Administrative Security support, Communication Security (COMSEC) support, Program Security support and other specialized security support.

1.4.4.18 **3 TES Requirements:** The contractor shall provide technical services to 3 TES through analytical, engineering, cyber, and space subject matter expertise for all 3 TES programs through all phases of the test process. Currently, 3 TES supports multiple orbital warfare Special Access Programs. Also provide administrative support, technical writing support, Information Technology security/support, Administrative Security support, Communications Security (COMSEC) support, Program Security support, Mission Protection support, and other specialized security support.

1.4.4.19 **1 TES Requirements:** Provide technical services to 1 TES through analytical, engineering, cyber and space subject matter expertise for all 1 TES programs through all phases of the test process. Currently 1 TES supports multiple programs including, but not limited to: space systems, command and control systems, enterprise ground equipment, and Special Access Programs. Also provide administrative support, technical writing support, Information Technology (IT) security/support, Administrative Security support, Communication Security (COMSEC) support, Program Security support and other specialized security support.

1.4.5 **Information Technology (IT).** At the Government direction, the contractor shall provide support as follows:

1.4.5.1 **Information Technologies**: IT is integral to all the missions supported by this contract. Additional IT effort may be required in support of projects in other areas of the PWS that are added as requirements and funding are identified. Any and all business methods developed to render services under paragraph 1.4.5 and subparagraphs

shall be the property of the Government. Workload data will be documented at the task order level. IT Mission Essential Support requirements will be established at the task order level. (CDRL A010 - Mission Essential Support).

1.4.5.1.1 **Engineering, Development, Operation, Administration, Support and Maintenance of Information Systems and Networks Supporting Internal/ External Communications**. The contractor shall provide support in system design, operation, administration and maintenance of Information Systems and Networks. (CDRL A009 Scientific and Technical Reports). In support of this effort the contractor shall

1.4.5.1.1.1 Operate networked and stand-alone systems at the unclassified, secret and top secret-SCI classification levels and provide after-hours, non-duty hours and on-call support as requested by the Government; and deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering operational services.

1.4.51.1.2 Maintain a Government-provided trouble ticket system as well as track and report customer survey results.

1.4.5.1.1.3 Provide engineering, operations, management, maintenance and general support for Local Area Networks (LANs), stand-alone systems and any specialized systems within or used by the customers. This includes any associated network/backbone/infrastructure hardware/software.

1.4.5.1.1.4 Perform client systems technician duties and conduct client systems technician training for assigned Government client systems technicians, as applicable. The purpose of a client systems technician is to provide a first-line customer support function to resolve basic IT-related issues.

1.4.5.1.1.5 Provide consolidated job control/help desk function to serve as the Building 24 focal point for IT customer support. The consolidated job control/help desk function shall be capable of handling the full range of IT-related issues (i.e., Tier 1, 2, 3) to include:

1.4.5.1.1.6 Configure mobile communication devices.

1.4.5.1.1.7 Support walk up, telephone or e-mail customer problem resolution; receive, answer and transfer, when required, trouble calls and maintenance requests in support of all Building 24 missions and personnel; assign a ticket number and track communication system outages and repair actions until the issue is resolved; and deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering problem resolution services.

1.4.5.1.1.8 Coordinate with internal and external agencies (i.e., third-party vendors, host base, and program management offices), to isolate faults, make repairs, and restore service to supported systems; report the status of problem resolution to the affected customer and maintain a historical record of problem resolution.

1.4.5.1.1.9 Support other functions in the consolidated job control/help desk function to include: developing and maintaining maintenance management continuity documentation; overseeing daily scheduled and unscheduled maintenance; assigning job control numbers and proposing restoral priorities to communication systems; preparing and modifying job schedules depending on mission priorities; tracking equipment and circuit outages; developing and implementing life cycle logistics support for system acquisitions and modifications; ensuring preventive maintenance schedules are developed and implemented; conducting trend analysis to evaluate system performance and providing feedback to the Government through equipment status reports and job data documentation.

1.4.5.1.1.10 At the direction of the Government, establish prioritization levels to support all missions, Users, and Services within the primary Government designated facilities (Building 24) at Schriever SFB CO and geographically separated units (GSUs) designated.

1.4.5.1.1.10 Maintain, sustain, and upgrade computer (hardware/software) and communications infrastructure. This includes establishment and sustainment of the communications architecture/infrastructure. Deliver any and all architecture/infrastructure documentation developed in the course of maintaining, sustaining and/or upgrading 392 CTS infrastructure.

1.4.5.1.1.11 Oversee the overall security, integrity, and operations of Delta 12 systems and networks IAW local policies and procedures and provide support in connecting 12 DOS divisions with other agencies. This will include the assessment and authorization, patching, scanning, and testing of systems.

1.4.5.1.1.12 Disconnect, move and connect equipment to networks; demonstrate expertise to install, configure, and maintain these systems as well as analyze, troubleshoot, and resolve software, hardware, and network anomalies; operate and maintain computer facilities, to include all IT system hardware and software currently in use by the customer and new hardware and software specified by the Government during the course of the contract. Support is required both within Building 24 and at exercise locations. Flexible work schedules may be required to support exercises, wargaming events, USSPACECOM, experiments, demonstrations, and contingencies according to a mutually agreed upon schedule.

1.4.5.1.1.13 Perform systems administration on a myriad of platforms including but not limited to Silicon Graphics Inc (SGI), SUN Microsystems, personal computer (PC) and Mac systems, running multiple operating systems such as IRIX, Solaris, Linux, VMware ESXi v5 or later, Windows 2012, Windows 10, Windows 11, and newer versions, as well as several versions of the Mac operating system.

1.4.5.1.1.14 Configure, install, identify, assess, mitigate, and report all vulnerabilities of fiber, ethernet and fast Ethernet networks; and troubleshoot and restore systems (e.g., servers, desktops, laptops, peripherals, scanners, plotters and printers) to normal operating conditions in minimal time.

1.4.5.1.1.15 At the direction of the Government, the contractor shall perform network/communications design and implementation for mission and exercise/experiment operations. This includes potential radio (e.g., Ultra High Frequency Satellite Communications (UHF SATCOM), Tactical Data Dissemination Systems (TDDS), Tactical Data Information Link (TADIL) and Tactical Information Broadcast System (TIBS), high-speed satellite communications (e.g., Global Broadcast Service (GBS)), short and long haul (e.g., Asynchronous Transfer Mode (ATM), T-carrier 1(T1), and T-carrier 3 (T3)), and Wide Area Network (WAN) connections (e.g., routed ethernet connection to exercise networks such as the Joint Training and Experimentation Network (JTEN) and Defense Research and Engineering Network (DREN). Support includes engineering and implementing solutions and completion and follow-through of 12 DOS communications and computer requirement documents. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures, and similar items developed in rendering network/communications design and implementation services.

1.4.5.1.1.16 Provide network technical support. Support includes address and machine/domain name management, interfacing/coordinating with external agencies on WAN (and other long-haul communications links) issues, and troubleshooting problems. Points of contact shall be identified for normal and emergency situations. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures, and similar items developed in rendering address and management services.

1.4.5.1.1.17 Perform communications system technical support, architecture design and troubleshooting. Technical support includes operating system loading and (re) configuration, user account management, system backup and recovery, troubleshooting, removing and replacing components and peripherals, installing software, operating systems and drivers and coordinating any other maintenance support with internal and external agencies. Expertise is required for the currently utilized operating system, which include Windows 7, Windows 2008, VMware ESXi v5 or later, and Windows 2012, Windows 10, LINUX and UNIX (including SUN, SGI, and PC variants). Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures, and similar items developed in rendering communication system technical support, architecture design, and troubleshooting services.

1.4.5.1.1.18 Perform application loading, troubleshooting, tuning and technical support for hardware and software used within supported networks. Applications currently include: Portable Flight Planning System (PFPS), Global Command & Control System (GCCS), Collaborative Virtual Workspace (CVW), Real Time Geographical Information System (RTGIS), Space Battle Management Core Systems (SBMCS), Space-Based Infrared System (SIBRS), Missile Warning System (SMWS), Asset, Combat Survivor Evader Locator (CSEL), Web Server Application Trainer (CWSAT), Distributed Information Warfare Constructive Environment (DICE), Extended Air Defense Simulator (EADSIM), Missile Defense Space-Warning Tool (MDST), JSpOC Mission System (JMS), Joint Simulation BUS (JBUS), GPS Environment Generator (GEG), Processing Display Subsystem-Migration (PDS-M) and ISSA (DMOC systems). The Government will provide required systems technical support update training for Government unique systems. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering application technical support services. Any and all business methods developed to render these services shall be the property of the Government.

1.4.5.1.1.19 At the direction of the Government, the contractor shall determine the most appropriate, technically feasible, integrated, and cost effective means of meeting customer IT needs at the unclassified, secret and TS-SCI level. This includes researching new ways to accomplish the mission more efficiently. As an example, when feasible bring automation and other ways to accomplish the mission with new technology into the discussion.

1.4.5.1.1.20 At the direction of the Government, the contractor shall develop and review communication system requirements, compare potential needs with existing infrastructure, identify shortfalls and excesses, integrate communication systems to achieve interoperability and establish continuity procedures and a reference library of pertinent policies, procedures, documents and architectures to properly plan for future communication systems. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering the review and integration services.

1.4.5.1.1.21 Meet with customers/users on a regular basis to learn about their organizational structures, unit missions and requirements to gain a better understanding of their needs and to educate customers on the 12 DOS IT processes and procedures.

1.4.5.1.1.22 Develop and review Communication System Requirement Document (CSRD) technical solutions and Communication and Information Systems Installation Records (CSIR) annually to provide network, computer system, financial, installation, outside agency coordination, information assurance and customer assistance. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering the development and review services.

1.4.5.1.1.23 Provide all technical network and systems engineering expertise to the Government with a complete technical solution that meets the requirement or intent of the customer, provide recommendations to the Government regarding issues with a CSRD, and provide the Government with alternatives to meet the requirements outlined in the CSRD. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures, and similar items developed in rendering technical network and systems engineering services and in developing technical solutions.

1.4.5.1.1.24 Perform facility layout and engineering for Government designated facilities (Building 24) at Schriever SFB and supported units in the Front Range area. This includes accounting for and coordinating security assessment and authorization (A&A) issues, equipment placement, and equipment cooling and power requirements. Participate in planning forums, briefings, conferences, and meetings to keep informed on internal and external resources. Deliver any and all software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering facility layout and engineering services.

1.4.5.1.1.25 At the direction of the Government, the contractor shall perform systems architecture design and planning and develop and maintain an overall plan for systems upgrades to support long-term budgeting. Support is targeted at the rapid prototyping of systems. Deliver any and all prototypes, software, designs, plans, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering the design and planning services.

1.4.5.1.1.26 Update, maintain, and deliver CSIR and schematic operational, systems, and technical architecture drawings. Update, maintain, and deliver interface drawings between systems, connectivity drawings of equipment to various LANs and current configuration modifications requirements derived from communication requirements and system A&A processes to the level agreed upon by the Government and the contractor.

1.4.5.1.1.27 Develop, plan, and integrate organization IT systems and networks. Perform mission review with customers for architectural, integration, interoperability, and impact on IT infrastructure. Ensure systems are in compliance with established DoD and AF policies and directives. Identify resource and system shortfalls. Help customer develop IT requirements, project scope, and funding strategy.

1.4.5.1.2 **Computer Systems Acquisition, Management and Accountability.** In support of this effort the contractor shall:

1.4.5.1.2.1 Be responsible for all actions undertaken to configure/re-configure, field, account for, and turn in the 12 DOS stand-alone and networked IT systems and equipment at the unclassified, secret and TS-SCI classification levels IAW Government procedures and systems (i.e., Information Technology Equipment (ITE), Standard Base Supply System (SBSS) and Defense Logistics Agency (DLA)).

1.4.5.1.2.2 Assist with purchasing unique mission systems in support of 12 DOS integration tasks associated with this PWS. All purchases will be made IAW the AFWAY and CSRD process and are reimbursed/accounted for as part of the ODC CLIN (see paragraph 1.5.6). .

1.4.5.1.2.3 Establish a Configuration Management Office, appoint a Configuration Manager, and support the Government with receiving customer/user-identified communication requirements using established processes and tools, develop/coordinate technical solutions for the requirements, and verify the systems will work within the 12 DOS infrastructure. Deliver any and all technical solutions, software, designs, records, databases, manuals, guides, standard operating procedures and similar items developed in rendering Configuration Management Office services.

1.4.5.1.2.4 Support the Government with defining requirements, develop/find technical solutions, work plans that are consistent with architectural and information system security guidelines and policies, and update local procedures explaining how to prepare and process communication system requirements. Technical solution coordination shall include, as a minimum, cybersecurity and systems engineering review.

1.4.5.1.2.5 Monitor the requirement and inform the requesting organization of its status throughout the design, implementation, and A&A stages. When checking integration efforts, the contractor shall take full account of their impact on the infrastructure and detail the methods and means of implementation to include system description, points of contact, actual or forecasted implementation dates, hardware and software requirements, funding and classification of information processed in this review.

1.4.5.1.2.6 Determine what resources are available for installation and maintenance of equipment and include in the work plan; consider what logistics support the system needs and coordinate maintenance planning, supply support, technical data, manpower, facilities, packaging, handling, storage, and transportation.

1.4.5.1.2.7 Support the Government with the management process applied throughout the life of an automated information system (AIS) and help determine whether benefits of the expected life of a system or facility are worth the cost, or if leased, whether length of the contract is worth the overall cost.

1.4.5.1.2.8 Maintain and update the existing configuration management database for all systems (hardware and software) and communications equipment (hardware and software) under 12 DOS IT control. The inventory shall list the location and all required unique identifying characteristics necessary to link individual items of hardware and software to the system and its location. The database will be linked to the Delta 12 Intranet web page.

1.4.5.1.2.9 Track and report software licensing and other pertinent data. The contractor shall update the database daily to keep it accurate. Ensure all hardware and software is added to the inventory database prior to installation, dispose of excess hardware and software, and ensures the disposition is annotated in the database.

1.4.5.1.2.10 Package and ship defective parts and receive and distribute replacement parts for equipment under warranty. Any shipping costs will be at the direction of the Government and are reimbursed/accounted for as part of the ODC CLIN (see paragraph 1.5.6).

1.4.5.1.2.11 Appoint an Information Technology Equipment Custodian (ITEC) and alternates to fulfill duties in support of Government requirements as identified in individual task orders. Serve as the central point of contact with the Base Equipment Control Office (BECO) for all ITE matters to include: receiving, storing, issuing and disposing of all ITE; maintaining the inventory database, and ensuring all hardware is added to the database prior to installation; accomplishing semi-annual inventories of all the supported systems and communications hardware to ensure accuracy of the database, and providing a written report of these findings along with recommendations to resolve discrepancies; accomplishing quarterly 10% spot-check audits of operational areas to verify equipment accountability and control, and report the results to the Government; conducting inventories directed by the BECO and reconciling inventories with the installation's inventories; reporting any discrepancies to the Government; disposing of excess hardware ; and performing a 100% physical inventory of designated ITE assets prior to assuming responsibility for those assets. The contractor shall not make disposition decisions because that is an inherently governmental function IAW FAR 7.503(c)(11)

1.4.5.1.2.12 The contractor shall assist the Government with the CCS-3 and GSA Advantage processes to purchase cradle-to-grave systems and IT equipment. This includes purchase, inventory, and disposal processes that make up the IT life cycle. The contractor shall assist the Government in submitting request quotes, creating orders, and tracking order status. The contractor shall assist the Government in the execution of the CCS-3 waiver process for buying ITEC outside of the Government processes when needed. The contractor shall use the ITIPS (Information Technology Investment Portfolio System) and the DCOR (Design Chain Operations Reference) form to obtain approval to add purchased equipment (switches, servers, disk arrays, etc.) to the 12 DOS IT DATA Center.

1.4.5.1.3 **System and Network Security.** In support of this effort the contractor shall:

1.4.5.1.3.1 Comply with certification/education/training requirements as mandated in DoD 8570.01 M (i.e., commercial/industry certifications).

1.4.5.1.3.2 Support the Government in the development of A&A packages IAW AF Policy Directive (AFPD) 17-1, AFSSI 7703, DoDI 8510.01, DODI 8500.01, Intelligence Community Directive (ICD) 503, SP 800-53v4 , DoD 8570-01 M, CNSSI 1253, and provide the Authorizing Official (AO) and/or Certifying Authority with system A&A recommendations for all Delta 12-managed systems and networks at the unclassified, secret and TS-SCI level. Support customers/users with their specific network and stand-alone system A&A.

1.4.5.1.3.3 Maintain and update Trusted Facility Manuals, system descriptions, security policies, user guides, system architectures, and security-related documentation; support the Government in highlighting when changes to current packages are required IAW ICD 503. Ensure all packages are submitted and coordinated with the authorizing authority for approval and monitor the current status of all A&A packages.

1.4.5.1.3.4 Prepare and present training tailored for initial and periodic information awareness (IA), system administrator technical awareness and executive level IA training. At a minimum, the training shall include the threat to the 12 DOS and its information systems, IA intrusion techniques used by intruders, and the procedures users can take to report (physical, procedural, technical) and protect against these intrusions.

1.4.5.1.3.5 Provide information to support system administrators, network managers, users, procurement staff, and security personnel; monitor, implement, and report on all security/configuration patches/changes (i.e., NOTAM, IAVM, and security/vulnerability advisories). Accomplishment timelines are identified in individual NOTAMs, IAVMs, etc.

1.4.5.1.3.6 Perform a weekly review of the audit trail of the Delta 12's systems (servers, workstations/desktops, firewalls) for any abnormal activities and maintain the audit trail IAW AFPD 17-1, AFI 17-130, DCID 6/3, CNSSI 1253, SP 800-53v4, and ICD 503.

1.4.5.1.3.7 Conduct vulnerability testing and risk analysis as part of the overall A&A process on all networks and systems as determined by the Government IAW AFPD 17-1, AFI 17-130, and ICD 503. The certification test is to determine such things as system security weaknesses, vulnerabilities, procedural problem areas, and/or implementation flaws with the system's architecture. Vulnerability testing and risk analysis shall be performed periodically, randomly, or as new systems are installed. The test and risk analysis shall include the architecture, its external and internal connections, and management processes and procedures to determine risk levels for operating networks and stand-alone systems.

1.4.5.1.3.8 Identify corrective actions for hardware, software and business management procedures required to correct or minimize the deficiencies, points-of-contact responsible for correcting identified problems and projected dates when identified problems will be corrected. Work with the Government, associated support contractors and identified points-of-contact to ensure proper implementation of the corrective actions.

1.4.5.1.3.9 Maintain and improve computer system security baseline to include threat updates, security configuration control, and system security review for software/system purchases, evaluation, and integration; provide support in the investigation and documentation of network and stand-alone security incidents.

1.4.5.1.3.10 Support management of COMSEC materials in support of Delta 12 operations to include: accounting for and inventorying COMSEC material; keying cryptographic (CRYPTO) equipment; troubleshooting system failures; destroying superseded keying material; documenting receipt, issue, inventory, and destruction of COMSEC material; creating messages for the COMSEC controlling authority's ability to issue keying material (keymat) to customers; supporting and training Delta 12 users responsible for keying, safeguarding, troubleshooting, and destroying CRYPTO equipment; and supporting the Government in providing regularly scheduled training to all designated personnel responsible for keying, safeguarding, troubleshooting, and destroying CRYPTO equipment IAW AFMAN 17-1302-O.

1.4.5.1.3.11 Collate, analyze and report all auditable events on Delta 12 systems/networks. Document existing and proposed information architecture to convey compliance, problems, and solutions. Resolve incidents and breaches, mitigating problems, and informing key personnel. Analyze networks to identify vulnerabilities and reduce breaches. Develop and implement scanning and certification plans for network control and maintenance.

1.4.5.1.4 **Software Engineering, Maintenance, Management and Support.** In support of this effort the contractor shall:

1.4.5.1.4.1 Plan, research, design, develop, code and document software applications in support of customer requirements and conduct training activities required to ensure supported personnel are able to effectively use the software applications. Deliver the software applications, software documentation, training plans, training aids, presentations, designs, records, databases, manuals, guides, standard operating procedures, and similar items developed in rendering software application services.

1.4.5.1.4.2 Provide web support to customers. Responsibilities include development and design, of SharePoint web pages. Ensure each web page is properly secured, professionally presented, current, and accurate. Ensure all information under the contractor's control is properly reviewed and documented before activating for live use; ensuring proper access and protection controls are in place and operational; ensure information that is outdated or superseded is brought to the Government's attention and disposed of properly; meet with local and HHQ webmasters to cross flow information on items such as process evaluation and information assurance training and registering the supported web sites on Government and contractor-provided resources within the Government Information Locator Service.

1.4.5.1.4.3 Provide database software support to include Structured Query Language (SQL) and Microsoft Access® for the maintenance of new and existing database applications. Support shall include modifying current database applications, updating technical and user documentation, and providing training to users and client systems technicians on the modifications. Deliver the database software applications, software documentation, training plans, training aids, presentations, designs, records, databases, manuals, guides, standard operating procedures, and similar items developed in rendering database software application services.

1.4.5.1.5 **Hardware, Operating Systems, and their Peripherals (HOSP) Maintenance.** HOSP maintenance is Level 2 maintenance (i.e., testing, replacement of component parts, major system overhauls) done to sustain mission-ready equipment at the time and place it is needed. In addition to Level 2 maintenance, it also includes upgrades on existing and/or new hardware, operating systems, and peripherals as well as preventive maintenance performed for the purpose of preventing problems before they occur by maintaining items (adjusting and replacing items) according to a regular schedule. The contractor shall:

1.4.5.1.5.1 Support the Government in determining what level of maintenance individual HOSP systems will require. The level of maintenance shall, at a minimum, identify the mission criticality, acceptable downtime, spare parts, warehousing requirements and location for repair (i.e., on-site, depot, or vendor location).

1.4.5.1.5.2 Support the Government in coordinating with all HOSP system vendors to identify those HOSP systems to be placed on a vendor maintenance contract. The contractor shall coordinate with the HOSP system vendor to identify upgrade requirements necessary to place the HOSP systems on the vendor maintenance contract and notify the Government of all costs associated with the upgrade.

1.4.5.1.5.3 Designate an on-site Computer Maintenance Support Technician (CMST) with necessary test equipment and tools; establish an office to perform installation, maintenance, and troubleshooting of HOSP. The on-site CMST shall be certified and highly proficient in troubleshooting and repairing HOSPs anomalies and restoring specialized desktop workstations (SGI, SUN, and Mac), specialized unique processors, and peripherals (printer, external drives).

1.4.5.1.5.4 Coordinate with the Government to ensure that prior to any upgrade or new installation, documentation of the computer's new configuration is properly processed/annotated. The contractor shall coordinate maintenance actions with the 12 DOS consolidated job control/help desk function.

1.4.5.1.5.5 Coordinate warranty repair actions for equipment under warranty and submit a trouble report to the 12 DOS IT consolidated job control/help desk function, documenting repairs made to supported computer equipment.

1.4.5.1.5.6 Move, remove and install all HOSP systems and peripherals (printer, external drives) in a condition capable of supporting customer requirements; ensure a CSRD or trouble ticket number is submitted and used as a reference prior to any HOSP action regarding hardware or software upgrades.

1.4.5.1.5.7 Maintain the expertise to provide centralized A/V communication installation, routine support, and maintenance for S12 DOS systems.

1.4.5.1.6 **Visualization Lab.** Generate computer-based digital-video, 2-dimensional (2D) and 3-dimensional (3D) animation, analog-video, resolution independent vector graphics, raster graphics, page-layout design for desktop publishing of short to long documents, design large-format poster and chart products using page layout design techniques integrating raster and vector graphics, as well as multimedia/A/V presentation slide support, the contractor shall:

1.4.5.1.6.1 Design, develop, and deploy HTML/XML-based markup solutions.

1.4.5.1.6.2 Produce technical video-based presentations utilizing 2D and 3D animation, scripted narration, audio, multiple source inputs, camera operations, and multiple inputs for complex statistical, engineering, scientific and/or military applications, concepts and programs with: multiple editing suites; compositing tools; 3D animation suites;

digital video format compression and processing applications with specialization in re-purposing, multi-bandwidth streaming in various accepted formats; Compact Disc Read-Only Memory (CD-ROM)/Digital Video Disc (DVD) distribution; image editing; illustration; desktop publishing; page layout; and end-to-end distribution media tools.

1.4.5.1.6.2.1 Production includes script writing, story boarding, directing, use of lighting and multiple cameras, real-time multiple input directing/producing, DVD authoring, and video editing.

1.4.5.1.6.2.2 Both server and client coding and support services use Java, Java Script, ActiveServer pages, Visual Basic, SQL, streaming A/V, and databases while adhering to at least 3D generation design techniques, concepts, and tools.

1.4.5.1.6.2.3 A/V production tools for development, conversion, and/or re-purposing of A/V media for use on various distribution media include: Intranets and the Internet, PowerPoint and Showcase presentations, CD-ROM, DVD-V/ROM, and other emerging distribution media and provide video and sound engineering, and maintenance services.

1.4.5.1.6.2.4 Maintain a Government provided Vislab work order system and track customer survey results.

1.4.5.1.7 **Cable Maintenance**. Maintain existing infrastructure, planning, and management of all activities related to communications infrastructure within the Building 24. The contractor is responsible for the quality of workmanship, timeliness, tracking, documentation, and reporting the overall health and state of the communications infrastructure to include problem resolution as well as for review and coordination of new construction for impact assessment. Receives and investigates major emergency calls; supervises the maintenance of records and reports on work performed. Assists the Government in providing communication security support.

1.4.5.1.8 Provide video teleconferencing support to include, scheduling, operations and maintenance. Troubleshoot outages and coordinate with external agencies for support.

1.4.6. **STARCOM Wargaming.** At the direction of the Government, the contractor shall:

1.4.6.1 Provide support to STARCOM Wargaming including the Schriever Wargame Series (CDRL A009 – Scientific and Technical Reports). In support of this effort the contractor shall:

1.4.6.1.1 Coordinate, design, and develop wargame scenario(s), orders of battle, toolkits, an analysis and assessment approach, recommend and coordinate event locations, and recommend potential participants, both individuals and organizations, to ensure participation from all needed communities are properly represented at the appropriate classification levels up to classifications above TS. If the design dictates, develop supporting vignettes used to facilitate game play, training, and conduct wargame planning activities on-site at Building 24 or other locations as required.

1.4.6.1.2 Assist the Government to define requirements and make recommendations for M&S support. This support will enhance game reality, provide assessment of participant moves, and provide wargame participants with course of action assessment and visualization.

1.4.6.1.3 Participate in USC Title 10/50 events to coordinate Schriever Wargame and STARCOM Wargame event design features. The intent of this support shall be the modular space input to USC Title 10 Wargames as well as NRO Title 50 events. Other USC Title 10/50 event support may be accomplished as resources dictate. This shall be at the direction of the Government.

1.4.6.1.4 Provide expertise at all levels of space, policy, military, and cyberspace planning and operations. Examples of this support include facilitators, recorders, assessors, and, as needed, highly qualified experts. These individuals are required to support active duty participants with in-depth understanding of military planning for space and cyber space operations, policy, and recommend courses of action during seminar preparation and execution. Analysis summaries may be required to support the conclusions reached and recommendations made.

1.4.6.1.5 Design and facilitate Schriever Wargame Planning Conferences (three annually). Each event may require build-up workshops that directly contribute to establishing products that directly tie into the wargame design (e.g., a communication workshop that defines the communication infrastructure for the actual wargame) and provide facilitators, assessors, and recorders with experience participating in political-military game-seminars conducted for senior leaders. The preparation shall include an in-depth understanding of seminar/workshop objectives and a developed and approved analysis plan. Plan and prepare two Schriever Wargame Operational Planning (OP) seminars for high level classification (2 each for CTOC and USTOC). Prepare, as requested by the Government, USTOC for other Title 10 or Title 50 Wargames. Plan and execute one Schriever Wargame Concept Development Conference (CDC) to prepare for the Capstone Game. Develop RED Team with external organizations and hold one planning session prior to Schriever Wargame Capstone. Additional STARCOM Wargaming events such as workshops, seminars, etc. may be required not to exceed the accepted level of support in the separate PWS for STARCOM Wargaming and with coordination between the contractor and the Government Wargame Director.

1.4.6.1.6 Ensure each seminar/workshop cell has the necessary materials to support their portion of the game play. This includes defining M&S support at the level necessary for each respective cell. Provide data collection and provide input to the developed and approved analysis plan, which are used to collect the information necessary and to generate seminar/workshop insights and outcomes and coordinate the results from the seminars and workshops within the wargaming community so that other wargame developers are apprised of the outcomes of the seminars and workshops.

1.4.6.1.7 During the annual execution of STARCOM Wargame events, to include Schriever Wargame, conduct game play and planning to include: providing facilitators and recorders; identifying and providing mentors, HQEs, and subject matter experts for wargame events in cooperation with the Government Wargame Director; ensuring each wargame cell has the necessary materials to support their portion of the wargame play; supporting the resolution of equipment and procedural shortfalls as they occur during the wargame; providing a data collection and analysis plan to collect the information necessary to generate wargame insights and outcomes in addition to the personnel needed to conduct the collection; developing an assessment plan and arrange for assessor support to include recommendations for future gaming activity; and coordinating the results from the wargame within the wargaming community so that other wargame developers are apprised of the outcomes of the space-centric game activities. Additionally, assist government in the triage and preparation for AF Task Management Tool (TMT) inquiries and requirements.

1.5 GENERAL INFORMATION

1.5.1 **Contract Performance Management.** The contractor shall advise the 3IS PM and/or CO immediately of any problems that affect the contractor's performance. All questions concerning interpretation of the contract or PWS shall be directed to the CO.

1.5.2 **Authorized Technical Direction.** The contractor shall only accept technical direction from the CO. The contractor shall immediately notify the CO of any technical direction received from unauthorized Government personnel.

1.5.3 **Contractor Employees.** The CPM and contract employees who interact with the Government shall be able to read, write, speak, and understand English. The contractor shall not employ any person who is an employee of the US Government if employing that person would create a conflict of interest. The contractor shall not employ persons for work on this contract if such employees are identified to the contractor by the CO as potential threats to the health, safety, security, general well-being or operational mission of the installation and its population. The installation commander may direct the CPM, in writing, to remove any employee from the installation when retention of such employee endangers life, property, security, or where such an employee violates reasonable and necessary base regulations. Contractor employees shall identify themselves as contractor personnel by introducing themselves or being introduced as contractor personnel and displaying distinguishing badges or other visible identification for meetings with Government personnel. In addition, contractor personnel shall appropriately

identify themselves as contractor employees in telephone conversations and in formal and informal written correspondence.

1.5.3.1 Contractor Personnel Specialties. The contractor shall accomplish the assigned work by employing and utilizing qualified personnel with appropriate certifications, clearances, education, training, and experience. As specified within the individuals task order PWS, the contractor shall be required to recruit and retain personnel with the identified qualifications within 60 days from award of the task order to support the tasks listed within the PWS.

1.5.4 **Access to Government Property and Facilities.** The contractor shall be allowed non-escorted access to Government buildings on Schriever SFB and other sites consistent with task requirements. Access to Government facilities, documents, and systems shall be IAW the approved DD Form 254, *DoD Contract Security Classification Specification*. Employees shall be subject to all regulations and directives governing the activities of personnel on Government installations.

1.5.5 **Exercises.** The contractor shall participate in all host base operational exercises and inspections to the fullest extent possible without negatively impacting real-world operations. The contractor shall not increase labor hours for exercise participation unless authorized in advance by the CO.

1.5.6 **Other Direct Costs (Government Directed Materials, Equipment, Supplies, Travel, and Incidentals)**

1.5.6.1 The contractor may be required to purchase open market materials in support of contract efforts. Major items shall be purchased through required sources of supply and in a manner that is "most advantageous to the Government." The contractor shall acquire a letter from the CO authorizing the contractor to purchase via General Services Administration (GSA). Minor item purchases (e.g., cables, connectors, fasteners) shall be purchased locally. The contractor shall be authorized to purchase materials costing less than $5,000 without prior Government approval. An item exceeding this dollar threshold shall require competitive pricing and coordination/approval with the CO prior to purchase. Purchases are on a cost reimbursable basis.

1.5.6.2 Any travel required to fulfill the tasks in this PWS shall be performed at the direction of the Government and IAW the Joint Travel Regulation (JTR), which shall be applied to the greatest extent possible. Government approval is required for travel outside the local area. Travel and per diem are on a reimbursable basis IAW the latest version of JTR regulations in effect at the time of the travel.

1.5.6.3 The Government accepts that there may be situations where the contractor's labor is paid under one task order and that contractor's travel expense may be paid under a separate contract task order. For example, "core" task orders such as IT support all contract task orders. When approved by the Government, the contractor is authorized to allocate travel and labor charges to different task orders as long as funding is available on the respective task orders.

1.5.7 **Contract Information Management**

1.5.7.1 Data Management. All data, regardless of media, produced in the performance of this contract shall be the property of the Government and shall be made available upon request.

1.5.7.2 Directive Publications Review. The contractor shall review new or revised directive publications (draft and final versions) and notify the CO within 30 days of receipt if the directive poses any cost or performance risk to the contract.

1.5.8 **Environmental and Hazardous Materials (HAZMAT)**

1.5.8.1 Environmental. The contractor shall ensure their operations and procedures do not result in acts or omissions that will violate environmental laws, or fail to exercise due care concerning human health and the environment. The contractor shall comply with all federal, state, and local environmental laws and regulations. The

contractor shall report acts or omissions in violation of environmental law to 50th Civil Engineering Squadron (CES)/CEIE within 12 hours of discovery.

1.5.8.2 AF Form 3952 Hazardous Materials Management. The contractor shall furnish an AF Form 3952 electronic worksheet and or any future Environmental Management System document available to include Safety Data Sheet (SDS) to the Base Hazardous Materials Pharmacy (HAZMART), through the Quality Assurance Evaluator (QAE), anticipated quantities, application, personal protective equipment, and method of disposal for all materials to be used under this contract. The listing shall include lubricants, spray cleaning solvents, and any known hazardous materials. The contractor shall manage hazardous material IAW AFI 32-7086 *Hazardous Materials Management*. The contractor shall purchase materials/products in compliance with Section 6002 of the Resource Conservation and Recovery Act (RCRA) and EO 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*. Regulatory Constraint: AFI 32-7086, *Hazardous Materials Management*.

1.5.9 **Hazardous Materials Management (HAZMAT).**

1.5.9.1 All HAZMAT used by the Government and contractor on an installation shall be channeled into the Hazardous Material Management Program (HMMP) for authorization and tracking. The contractor shall comply with the HAZMAT determination and authorization process as outlined in AFI 32-7086, *Hazardous Materials Management*, paragraphs 3.1.2, 3.3, and 3.4. Contact CES/CEIE, for additional guidance.

1.5.9.2 Hazardous Chemical Reporting. The contractor shall comply with 40 Code of Federal Regulations (CFR) Part 370, Hazardous Chemical Reporting, and 40 CFR Part 372, Toxic Chemical Release Reporting Community Right to Know, that includes the following: Chemicals with special characteristics which in the opinion of the manufacturer can cause harm to people, plants and or animals when released by spilling, leaking, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing into the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

1.5.9.3 Hazardous Waste (HAZWASTE). The contractor shall coordinate all HAZWASTE disposals with the installation environmental office. If there is any question about whether or not a substance is classified as hazardous, the contractor shall contact the installation environmental office. It shall be the responsibility of the contractor to pay for the disposal of hazardous waste unless otherwise specified. The contractor shall handle, accumulate, and manage hazardous waste IAW all regulatory requirements. Questions regarding the proper storage, handling and disposal may be directed to the environmental office through the CO. HAZWASTE manifested for disposal shall be reviewed and authorized through the environmental office.

1.5.9.4 Transporting HAZMAT Notification. The contractor shall notify the base Hazardous Materials Pharmacy (HAZMART) in writing prior to transporting hazardous materials onto the installation under this contract. The contractor shall comply with 29 CFR 1910.1200, *Hazard Communication Program*, and 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response*. The contractor shall contact CES/CEIE, for additional guidance. Regulatory Constraint: AFI 32-7086, *Hazardous Materials Management*.

1.5.10 **Federal, State and Local Laws**. The contractor shall perform the requirements of this contract in such a manner as not to violate any federal, state, or local laws, to include all CFRs (i.e., Occupational Safety and Health Act (OSHA), Environmental Protection Act (EPA)). The contractor shall be solely responsible for any reporting requirements and repercussions resulting from violations.

1.5.11 **Contractor Program Manager (CPM)**

1.5.11.1 The contractor shall identify in writing to the CO the individual assigned to act as the CPM and any authorized Deputy Contractor Program Manager (DCPM). The CPM or DCPM shall have full authority to act on behalf of the company in all matters relating to contract performance. The CPM or DCPM shall be made available to the 3IS PM or CO within two (2) hours of notification during normal duty hours.

1.5.11.2 The contractor shall provide programmatic support to oversee all contract/contractor activities, to include Performance Work Statement (PWS) development and review, monitor deliverable status per PWS/contract, track cost/funding documents, and manage both personnel and facility security requirements.

1.5.11.3 The contractor shall NOT represent the Government nor provide direction to other contractors. The Contractor shall ensure its personnel do not perform inherently governmental activities, as defined in FAR 7.5. All briefings, policies, plans and other formal products the Contractor develops, reviews, and creates, will be reviewed and approved by the Government.

1.5.12 **Quality Assurance**

1.5.12.1 To monitor/improve contractor performance, the Government will use JAM and SPM modules located in the Procurement Integrated Enterprise Environment (PIEE) database for all COR nominations, designations, and terminations. All contract surveillance actions will be conducted in the SPM module (e.g. submission of COR reports, annual inspections, and contract surveillance). The Quality Assurance monthly surveillance reports will be documented electronically by the use of the Surveillance Checklist Smart Form in the SPM module to inspect the Service Summary (SS) items and any additional areas deemed necessary under the inspection clause.

1.5.12.2 The following criteria will be used as a guide when determining the rating for any particular SS for that particular month. Previous months criteria should not be used in determining the current months. Each month should be independent of any other month. Assessments range from satisfactory, unsatisfactory, and not applicable.

1.5.12.2.1 Exceptional (E) - Performance meets contractual requirements and exceeds many to the Government's benefit. The contractual performance of the element or sub-element being evaluated was accomplished with few minor problems when corrective actions taken by the contractor were highly effective. To justify, identify multiple significant events. A singular benefit, however, could be such magnitude it along constitutes Exceptional. NO significant weaknesses identified.

1.5.12.2.2 Very Good (VG) - Performance meets contractual requirements and exceeds some to the Government's benefit. The contractual performance of the element or sub-element being evaluated was accomplished with some minor problems when corrective actions taken by the contractor were effective. To justify, identify a significant event; there should have been no significant weaknesses identified.

1.5.12.2.3 Satisfactory (S) - Performance meets contractual requirements. The contractual performance of the element or sub-element contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory. To justify a Satisfactory rating, there should have been only minor problems, or major problems the contractor recovered from without impact to the contract/order. There should have been no significant weaknesses identified.

1.5.12.2.4 Marginal (M) - Performance does not meet some contractual requirements. The contractual performance of the element or sub-element being evaluated reflects a serious problem when the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented. To justify, identify a significant event in each category when the contractor had trouble overcoming and state how it impacted the Government. Support by referencing the management tool to notify the contractor of contractual deficiency.

1.5.12.2.5 Unsatisfactory (U) - Performance does not meet most of the contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear to be or were ineffective. To justify an unsatisfactory rating, multiple issues or a single serious magnitude issue can constitute an unsatisfactory rating. An unsatisfactory rating should be supported by tools used to notify the contractor of the contractual deficiencies.

1.5.12.2.6 Pass (P) – Performance meets contractual requirements. Used for items having 100% compliance associated.

1.5.12.2.7 Fail (F) – Performance does not meet contractual requirements. Used for items having 100% compliance associated.

1.5.12.2.8 Other (OTH) – If none of the rating criteria above meet the need of the assessment, utilize other and address in the comment section. This should be a very rare occurrence.

1.5.12.3 Comments are required on how the contractor did or did not meet the requirements of the performance work statement. The surveillance process is designed to document the contractor's performance and enhance the COR and contractor feedback process. The contractor is required to document receipt of COR inputs and is encouraged to comment on the ratings.

1.5.12.4 Quality Control Program. The contractor shall establish a fully integrated quality program encompassing all aspects of the contract. This program should be based on employee involvement and inject quality and efficiency at all levels within the organization. (CDRL A018 – Quality Program Plan).

1.5.13 **Safety.**

1.5.13.1 The contractor shall comply with the Government's safety program and directives and shall ensure conformance with standards developed under US Public Law 91-596, the OSHA of 1970, and State Occupational Safety and Health (OSH) Standards, AFI 91-204, OI 91-205, and American National Standards Institute (ANSI), and National Fire Protection Association (NFPA) standards. If a conflict occurs, the contractor shall apply the more stringent standards. The contractor shall ensure that the Safety Office is notified of any mishaps within one (1) hour.

1.5.13.2 Facilities Safety. The Government has the authority to conduct facility safety inspections in Government facilities occupied by the contractor.

1.5.13.3 Mishap Reporting. The contractor shall report all mishaps involving personal injury or illness and damage to Government property resulting from contractor operations to the applicable Safety Office, 3IS PM, and the CO no later than the end of the duty day following the incident.

1.5.13.4 Mishap Investigation. The Government retains authority to conduct mishap investigations in Government facilities managed by contractors or to participate in the contractor's investigation of contractor mishaps. The contractor shall participate in, and cooperate with, mishap investigations.

1.5.14 **Security.**

1.5.14.1 General Security. The contractor shall be responsible for protection of government information, property, equipment, and resources which are generated, issued, or supplied under the terms of this contract. The provisions of DoD 5220.22-M, *Industrial Security Manual for Safeguarding Classified Information (ISM) (National Industrial Security Program Operating Manual (NISPOM)*, shall be directive at the contractor's cleared facilities, and used for guidance at other locations.

1.5.14.1.1 The contractor shall be responsible for assuring compliance with all security requirements as outlined herein. The contractor shall be responsible for providing any required escorts for the duration of the contract. Any contractor incurred delays, impacts or costs associated with complying with the security requirements outlined herein, or any other security requirement determined necessary by the CO, shall not be the subject of a claim by the contractor for additional cost/time compensation.

1.5.14.1.2 Delays on entering/exiting and interruptions in entry to some areas can be expected occasionally due to exercises or actual security incidents. These delays could be expected to occur approximately four times per year. Any delays or costs incurred due to these delays shall be the responsibility of the contractor and shall not be grounds for the Government to pay additional money.

1.5.14.1.3 The contractor must possess or obtain a facility clearance for his offsite facilities at the classification level of top secret. The Government shall request facility clearance if the apparent contractor does not possess a facility clearance. The contractor shall apply for personnel security clearances within 30 days after receipt of the facility clearance, or within 10 days after award of the contract if the contractor possesses a facility clearance. The contractor shall obtain appropriate personnel security clearances only for employees whose duties will require access to classified information. All position descriptions will identify whether a security clearance is necessary or not. For those employees not requiring access to classified, the contractor must obtain favorable NACI investigation for unescorted entry authority.

1.5.14.1.4 The contractor operations on Schriever SFB shall not be processed for a facility security clearance (FSC). Site activities shall operate as a long-term visitor group agreement whose security policies and practices are integrated with those of the installation. The contractor shall enter into a security agreement through 12 DOS Security Office with the Schriever SFB installation commander. This agreement shall be directive on the contractor and will establish policies and responsibilities governing:

1.5.14.1.4.1 Access to and accountability of classified material

1.5.14.1.4.2 Storage of classified material

1.5.14.1.4.3 Transmission of classified material

1.5.14.1.4.4 Disposition, including destruction of classified material

1.5.14.1.4.5 Security education

1.5.14.1.4.6 Visit requests/certification of security clearances

1.5.14.1.4.7 Reports

1.5.14.1.4.8 Issue and use of controlled or restricted area badges

1.5.14.1.4.9 Security checks of work areas

1.5.14.1.4.10 Emergency protection requirements

1.5.14.1.4.11 Inspections

1.5.14.1.4.12 Investigation of security incidents

1.5.14.1.4.13 Guard or law enforcement services

1.5.14.1.5 These agreements are developed by the installation commander to ensure national security interests are protected by confirming security support and identifying security procedures unique to the installation. If the contractor believes there may be a cost impact, the contractor shall notify the CO in writing, and not implement the agreement unless so directed by the CO.

1.5.14.1.6 The contractor shall appoint an individual to be the contractor's site security officer. This individual shall be the single point of contact for implementing security programs and procedures required by this PWS.

1.5.14.1.7 The contractor shall ensure a representative, normally the site security officer, attends semi-annual security manager meetings. The contractor shall be an active participant in the goals of this council. Participation may include contractor input necessary for preparation of base security regulations and plans and contractor implementing instructions.

1.5.14.1.8 The contractor shall immediately notify the 12 DOS Security Office 719-567-6571/6774 of the names of site employees involved and the circumstances surrounding the submission of any adverse information report required by DoD 5220.22-M, or arrests in connection with felony charges. The contractor shall establish procedures which will assure immediate execution of an installation commander's written order to bar an employee's entry to parts or all of Schriever SFB.

1.5.14.1.9 In connection with the Government security activities clause of this contract and/or inspections required by the ISM (NISPOM), paragraph 1-206a, and AFI 31-1406, the servicing security activities for contractor's operations on Schriever SFB are:

12 DOS Security Office (12 DOS/S2)
24 Talon Way, Ste 1401
Schriever SFB CO 80912

50 SW Information Protection (SW/IP)
Industrial Security Section
210 Falcon Pkwy, Ste 2101
Schriever SFB CO 80912-2101

1.5.14.2 Physical Security and Resource Protection. The contractor shall conduct security education and motivation training for contractor employees as specified in AFI 31-101 and 50th Space Wing Regulation 31-101. This program may be integrated with the security training requirements specified in the ISM (NISPOM).

1.5.14.2.1 The contractor shall provide sufficient key personnel to serve as escorts for work completed on Schriever SFB. Escorts may be designated escort officials (DEO) or standard escort officials (SEO).

1.5.14.2.2 DEO is identified as such on the restricted area badge. In order for individuals who have not been issued a restricted area badge to be permitted entry and movement on Schriever SFB, they must be processed through the Pass and Registration Building, issued an escort badge, and escorted into the restricted area by a DEO.

1.5.14.2.3 Any individual that possesses a restricted area badge (other than an escort badge) may serve as a SEO. Once the DEO has processed someone requiring escort into the restricted area, the DEO may transfer escort responsibilities to a SEO.

1.5.14.2.4 At the contractor's option, escort support may be provided through direct hiring of personnel from a private security firm. The majorities of these personnel have previously received security clearances or presently maintain a secret clearance which significantly reduces the waiting period for approval as an escort. The cost for escort support hired through a private security firm shall be absorbed by the contractor.

1.5.14.2.5 The number of employees escorted shall not exceed six (6) per designated escort at any one time.

1.5.14.2.6 When inside restricted areas, contractor/subcontractor personnel shall display restricted area badges on their outer garments above their waist. All personnel displaying badges shall provide such badges to the Schriever SFB Security Forces for examination upon request. The badge shall be removed upon exiting the restricted area and deposited on their person or within hand carried items to prevent loss. Any person not properly displaying badges or violating escort procedures (working out of view of escort) shall be treated as a breach of security and is susceptible to apprehension, search and detainment.

1.5.14.2.7 The contractor shall comply with the circulation controls established for USAF restricted and controlled areas IAW AFI 31-101, and local directives at each site. Compliance includes enforcing those controls in areas where the contractor controls entry. The contractor shall limit requests for restricted area unescorted entry authority to employees whose duties require entry into such area(s) a minimum of three times per month and who have been the subject of favorably completed national agency checks (NACs). To obtain NACs for employees who do not, and will not, require a security clearance, the contractor shall:

1.5.14.2.7.1 Inform the security activity 1) that the contract will require employee unescorted entry to restricted areas; 2) the number of employees who will not require security clearances, but will need unescorted entry authority; 3) an explanation of why escorting or use of free zones will not be feasible; and 4) a request that the security activity begin the NAC waiver as required by AFI 16-1405.

1.5.14.2.7.2 Contractor employees who have previously been the subject of a favorable NAC and are presently maintaining the position for which the NAC was received shall be verified by the contractor's Security Officer. When delegated in writing by the Government PM as a requesting authority, the contractor shall prepare an AF Form 2586 on the employee. The contractor shall be responsible for obtaining all coordination required on the AF Form 2586. The contractor will have the employee hand carry the AF Form 2586 to the Pass and Registration Building for issuance of a restricted area badge. The completed AF Form 2586 will be provided to the employee along with the restricted area badge. The completed form shall be returned to the 12 DOS Security Office by the employee.

1.5.14.2.7.3 Contractor employees who have been the subject of a favorable NAC at one point in their career but have since left the position in which they were employed when the NAC investigation was accomplished must have the contractor's Security Officer verify that the employee did at one time receive a favorable NAC, has not had a break in service of over two (2) years, and furnish such proof to the Government. Upon confirmation of previous security clearance by the Government and when delegated in writing by the Government PM as a requesting authority, the contractor shall complete an AF Form 2586 on the employee. The contractor shall be responsible for obtaining all coordination required on the AF Form 2586. The contractor will have the employee hand carry the AF Form 2586 to the Pass and Registration Building for issuance of a restricted area badge. The completed form will be provided to the employee along with the restricted area badge. The completed form shall be returned to the 12 DOS Security Office by the employee.

1.5.14.2.7.4 Contractor employees who have never been the subject of a NAC must complete a SF Form 86, *National Agency Questionnaire*. The contractor security official must complete a quality review of the SF Form 86, and complete an AF Form 2583, *Request for Personnel Security Action*. The employee must schedule an interview with the Schriever SFB Personnel Security Specialist for review of the forms and fingerprinting. Upon favorable completion of the NAC, the contractor will be notified and at such time the contractor shall complete an AF Form 2586, when delegated by the Government PM as a requesting authority. The contractor shall be responsible for obtaining all coordination required on the AF Form 2586. The contractor will have the employee hand carry the approved AF Form 2586 to the Pass and Registration Building for issuance of a restricted area badge. The completed AF Form 2586 will be provided to the employee along with the restricted area badge. The completed form shall be returned to the 12 DOS Security Office by the employee.

1.5.14.2.7.5 The contractor may use a visit request sent to the site under the provisions of the ISM (NISPOM) as proof of a favorably completed NAC. An AF Form 2583 may be used to document previously conducted NACs or higher investigations. In the remarks block, identify who the employee was employed with at the time the investigation was accomplished, dates of employment and any other names the individual may have used when the investigation was accomplished. If available, provide the date the previous investigation was conducted. Only DSS granted interim or final security clearance of secret or above are acceptable.

1.5.14.2.7.6 The contractor shall comply with the provisions of AFI 31-101 in escorts for employees who do not meet the requirements for or need unescorted entry authority. Employees who have not been granted unescorted entry authority will be continuously escorted while in a restricted area. The contractor shall provide escorts to their uncleared personnel in the cable chases and cable vaults of Building 400.

1.5.14.2.7.7 The contractor shall be responsible for security of work areas in cooperation with applicable base agencies. The contractor shall establish procedures which assure the retrieval of USAF restricted/controlled area badges issued to employees who strike, quit (with or without notice), are transferred, are barred by the installation commander's order, or otherwise no longer require unescorted entry authority.

1.5.14.2.7.8 The contractor site security officer shall annually conduct a "hands-on" inventory of all restricted area badges issued to contractor employees. He/she will comply with the badge issuing agency's instructions on when to conduct the inventory and how to report results.

1.5.14.2.7.9 All vehicles entering or leaving Schriever SFB are subject to search by the Schriever SFB Security Forces at their discretion. Alcohol, drugs, and firearms or other weapons are not allowed on Schriever SFB. If found, individual may be barred from future entry.

1.5.14.2.7.10 Delays can be anticipated at the entry control point each time an individual enters the restricted area. These delays are a routine matter when the Schriever SFB Security Forces search vehicles and hand carried items, and check badges and credentials. Delays may also be experienced if contractor employees must wait for an escort official. The contractor and his personnel shall immediately leave Schriever SFB upon direction by the CO or the Schriever SFB Security Forces.

1.5.15. Contractor Manpower Reporting.

1.5.15.1. The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the USSF 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.sam.gov

1.5.15.2. Reporting inputs will 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.

1.5.16 Antiterrorism.

1.5.16.1 CONUS: Contractors may request Antiterrorism Level I training from the unit receiving contractor services. If the contractor chooses to compete this training, they must make their request to the unit receiving their services within five (5) calendar days of beginning operations on the installation. Units who receive requests will coordinate training locations and times with the installation Antiterrorism PM. Contractors will report suspicious activity to Security Forces (567-6464) or the AF Office of Special Investigations (554-2822).

1.5.16.2 OCONUS: Contractors shall comply with Defense Federal Acquisition Regulation Supplement (DFARS) clause 252.225-7043 and locally established antiterrorism policies, plans, and procedures at the receiving unit's installation. Contractors shall complete Antiterrorism Level I training prior to travel outside the US. Should this not be feasible prior to departing the US, contractors will complete Antiterrorism Level I training within 5 calendar days of arrival at the receiving units installation. Contractors shall notify the receiving units Antiterrorism Representative (ATR) of the completed training and shall supply the ATR with their training certificates. Contractors will report suspicious activity to local law enforcement, military police or the AF Office of Special Investigations (or equivalent).

1.5.17 General Information Training.

1.5.17.1 All contractors who require access to an DoD Information Systems shall follow the provisions of AFMAN 33-152 para 2.2 and 2.3. All contractors shall have a favorable background clearance for access to any information systems.

1.5.17.2 All contractors shall complete DoD OPSEC training IAW AFI 10-701, Chapter 4.

1.5.17.3 Contractors shall complete annual records management training IAW AFI 33-322, Chapter 2.

1.5.18 Base Delay/Closure.

1.5.18.1 Services During Crisis. With the exception of Mission Essential Support requirements identified at the task order level, the performance of these services is non-mission essential during times of crisis. Should a crisis be declared, the CO or their representative will verbally advise the Contractor if temporary suspension of non-mission essential work is required, followed by a written notification. A representative of the CO will further notify the Contractor verbally when the crisis is ended, with written notification to follow. Any price change resulting from the crisis will be negotiated IAW Federal Acquisition Regulation (FAR) clauses for "Changes."

1.5.18.2 Federal Holidays: The following are recognized Federal holidays and Building 24 may not be open on these days, the contractor shall seek appropriate guidance on duty location from their contractor supervisor to determine the appropriate guidelines such as alternate duty location. The same provisions will apply when the President of the United States declares a Federal Holiday by Executive Order.

New Year's Day
Martin Luther King's Birthday
President's Day
Memorial Day
Juneteenth
Independence Day
Labor Day
Columbus Day
Veteran's Day
Thanksgiving Day
Christmas Day

1.5.18.3 During inclement weather, the contractor shall comply with the Space Base Delta 1 Snow Plan to determine if delayed reporting is in effect. The Snowline is (719) 567-7669. For family days, down days, and base closure days, the contractor shall seek appropriate guidance on duty location from their contractor supervisor to determine the appropriate guidelines such as alternate duty location.

SECTION B – Services Summary (SS). The SS is a listing of critical performance objectives (services required) with associated performance thresholds (specific standards) that will be periodically verified by Government personnel. Each performance threshold represents the minimum acceptable level of contractor performance for its corresponding performance objective. The performance objectives and thresholds represent only the critical components of this contract and do not excuse the contractor from performance of other responsibilities identified in this PWS. Failure to meet the established performance threshold for any service summary item can result in mission failure.

SS#	Performance Objective	PWS para.	Performance Threshold
1	Contractor shall comply with all security requirements and procedures.	All	Contractor industrial security program contributes to zero security violations.
2	Contractor performs day-to-day operation of networked systems at the unclassified, secret, top secret-SCI and SAP/SAR classification levels	1.4.3 1.4.5.1.1.1	Maintains at least 98% system uptime ratio for all networked systems. (Issues outside of contractor control or COR reprioritization of work will not be measured.)
3	Maintain assessment and authorization, patching, scanning, and testing of systems.	1.4.5.1.3.2 1.4.5.1.3.5	100% of all scans will be completed within prescribed limits as prescribed by NOTAMs, IAVMs and other security vulnerability advisories. (Issues outside of contractor control or COR reprioritization of work will not be measured.)
4	Contractor provided qualified personnel that were ready and available to travel during all phases of test, when required.	1.4.3 1.4.4	Contractor personnel were available and prepared to travel 100% of the time.
5	Contractor provided support for 392 CTS for Space exercises, experiments, and training events.	1.4.3	Contractor completed 100% of required tasks for each exercise/experiment/training event by date scheduled
6	Contractor provided information technologies support for exercises/experiments.	1.4.3	Contractor completed 100% of required tasks for each exercise/experiment by date scheduled and maintained 90% in service rate of applicable models and C4I equipment for the duration of the exercise/experiment correctable to 100% within five hours.
7	Provides planning, execution and transition support for project demonstrations, exercises, experiments and contingency operations.	1.4.3	Rated not less than “satisfactory” overall in the QAMR System (or monthly surveillance report) in any mission area.
8	Contractor designed/developed/facilitated wargame seminars/workshops and wargame execution.	1.4.6	Rated not less than “satisfactory” overall in the QAMR System (or monthly surveillance report) in any mission area.

SS#	Performance Objective	PWS para.	Performance Threshold
9	Provide test support to include planning, execution, analysis, reporting, training, operations research, cybersecurity, technical writing, software programming, and/or scheduling for oversight and sustainment & modernization OT&E/DT&E as well as WSEP and Tactics Validation.	1.4.4	Rated not less than "satisfactory" overall in the QAMR System (or monthly surveillance report) in any mission area.

3 SECTION C – GOVERNMENT FURNISHED PROPERTY AND SERVICES

3.1 Government Furnished Resources. The Government will authorize timely access to Government facilities and information that is required to support, test, demonstrate, operationally implement, sustain and enhance the supported missions. The Government will provide the facilities, equipment and services.

3.2 Facilities. The Government will provide the contractor facilities on Schriever SFB required for the contractor to perform the requirements of this contract (IAW AFOSH Standards or as approved by base Civil Engineering). No modifications will be made to any Government building without the written approval of the Base Civil Engineer. Government provided facilities shall be used solely for the performance of this contract. Government will provide the contractor office furniture and access to office automation equipment, services, and network bandwidth to support the contractor presence at the Government-designated facility.

3.3 Automated Data Processing Equipment (ADPE). The Government will provide the contractor at Government locations ADPE required to accomplish requirements. This equipment includes computers, monitors, phones, network printers, and common use fax, copier, scanner.

3.4 Office Electronic Equipment. On a non-conflict basis, the contractor may use Government Defense Switched Network (DSN)/Federal Telecommunications System (FTS) telephones and fax machines for the performance of contract tasks.

3.5 Government Furnished Services.

3.5.1 Installation Distribution. The Government will provide base distribution services for official mail.

3.5.2 Custodial Services. The Government will provide custodial services in common areas of the building (hallways, rest rooms). The contractor shall be responsible for the cleanliness of their immediate work areas (includes vacuuming, dusting, and trash removal).

3.5.3 Security Police and Fire Protection. The Government will provide security police and fire protection.

3.5.4 Emergency Medical Services. The Government will provide emergency medical services with the following caveat; the contractor is responsible for reimbursing the cost of such services.

3.5.5 Government Furnished Utilities. The Government will provide utility services required for operation of the facilities provided.

4 SECTION D – APPENDICES

4.1 Appendix A – STATUS OF FORCES AGREEMENT (SOFA)

INVITED CONTRACTOR OR TECHNICAL REPRESENTATIVE STATUS UNDER U.S. - REPUBLIC OF KOREA (ROK)

Invited Contractor (IC) and Technical Representative (TR) status shall be governed by the U.S.-ROK Status of Forces Agreement (SOFA) as implemented by US Forces Korea (USFK) Reg 700-19, which can be found under the "publications" tab on the US Forces Korea homepage http://www.usfk.mil

(a) Definitions. As used in this clause:

"U.S. – ROK Status of Forces Agreement" (SOFA) means the Mutual Defense Treaty between the Republic of Korea (ROK) and the US of America, Regarding Facilities and Areas and the Status of US Armed Forces in the Republic of Korea, as amended

"Combatant Commander" means the commander of a unified or specified combatant command established IAW 10 U.S.C. 161. In Korea, the CCDR is the Commander, US Pacific Command.

"US Forces Korea" (USFK) means the subordinate unified command through which US forces would be sent to the Combined Forces Command fighting components.

"Commander, US Forces Korea" (COMUSK) means the commander of all US forces present in Korea. In the Republic of Korea, COMUSK also serves as Commander, Combined Forces Command (CDR CFC) and Commander, United Nations Command (CDR UNC).

"USFK, Assistant Chief of Staff, Acquisition Management" (USFK/FKAQ) means the principal staff office to USFK for all acquisition matters and administrator of the U.S.-ROK SOFA as applied to US and Third Country contractors under the Invited Contractor (IC) and Technical Representative (TR) Program (USFK Reg 700-19).

"Responsible Officer (RO)" means a senior DoD employee (such as a military E5 and above or civilian GS-7 and above), appointed by the USFK Sponsoring Agency (SA), who is directly responsible for determining and administering appropriate logistics support for IC/TRs during contract performance in the ROK.

(b) IC or TR status under the SOFA is subject to the written approval of USFK, Assistant Chief of Staff, Acquisition Management (FKAQ), Unit #15237, APO AP 96205-5237.

(c) The CO will coordinate with HQ USFK/FKAQ, IAW FAR 25.8, and USFK Reg 700-19. FKAQ will determine the appropriate contractor status under the SOFA and notify the CO of that determination.

(d) Subject to the above determination, the contractor, including its employees and lawful dependents, may be accorded such privileges and exemptions under conditions and limitations as specified in the SOFA and USFK Reg 700-19. These privileges and exemptions may be furnished during the performance period of the contract, subject to their availability and continued SOFA status. Logistics support privileges are provided on an as-available basis to properly authorized individuals. Some logistics support may be issued as Government Furnished Property or transferred on a reimbursable basis.

(e) The contractor warrants and shall ensure that collectively, and individually, its officials and employees performing under this contract will not perform any contract, service, or other business activity in the ROK, except under US Government contracts and that performance is IAW the SOFA.

(f) The contractor's direct employment of any Korean-National labor for performance of this contract shall be governed by ROK labor law and USFK regulation(s) pertaining to the direct employment and personnel administration of Korean National personnel.

(g) The authorities of the ROK have the right to exercise jurisdiction over invited contractors and technical representatives, including contractor officials, employees and their dependents, for offenses committed in the ROK and punishable by the laws of the ROK. In recognition of the role of such persons in the defense of the ROK, they will be subject to the provisions of Article XXII, SOFA, related Agreed Minutes and Understandings. In those cases in which the authorities of the ROK decide not to exercise jurisdiction, they shall notify the US military authorities as soon as possible. Upon such notification, the military authorities will have the right to exercise jurisdiction as is conferred by the laws of the US.

(h) Invited contractors and technical representatives agree to cooperate fully with the USFK SA and RO on all matters pertaining to logistics support and theater training requirements. Contractors will provide the assigned SA prompt and accurate reports of changes in employee status as required by USFK Reg 700-19.

(i) Theater Specific Training. Training Requirements for IC/TR personnel shall be conducted IAW USFK Reg 350-2 Theater Specific Required Training for all Arriving Personnel and Units Assigned to, Rotating to, or in Temporary Duty Status to USFK. IC/TR personnel shall comply with requirements of USFK Reg 350-2.

(j) Except for contractor air crews flying Air Mobility Command missions, all US contractors performing work on USAF classified contracts will report to the nearest Security Forces INFOSEC section for the geographical area where the contract is to be performed to receive information concerning local security requirements.

(k) Invited Contractor and Technical Representative status may be withdrawn by USFK/FKAQ upon:

(1) Completion or termination of the contract.

(2) Determination that the contractor or its employees are engaged in business activities in the ROK other than those pertaining to U.S. armed forces.

(3) Determination that the contractor or its employees are engaged in practices in contravention to Korean law or USFK regulations.

(l) It is agreed that the withdrawal of invited contractor or technical representative status, or the withdrawal of, or failure to provide any of the privileges associated therewith by the US and USFK, shall not constitute grounds for excusable delay by the contractor in the performance of the contract and will not justify or excuse the contractor defaulting in the performance of this contract. Furthermore, it is agreed that withdrawal of SOFA status for reasons outlined in USFK Reg 700-19, Section II, paragraph 6 shall not serve as a basis for the contractor filing any claims against the US or USFK. Under no circumstance shall the withdrawal of SOFA Status or privileges be considered or construed as a breach of contract by the US Government.

(m) Support.

(1) Unless the terms and conditions of this contract place the responsibility with another party, the COMUSK will develop a security plan to provide protection, through military means, of contractor personnel engaged in the theater of operations when sufficient or legitimate civilian authority does not exist.

(2)(i) All contractor personnel engaged in the theater of operations are authorized resuscitative care, stabilization, hospitalization at level III military treatment facilities, and assistance with patient movement in emergencies where loss of life, limb, or eyesight could occur. Hospitalization will be limited to stabilization and short-term medical treatment with an emphasis on return to duty or placement in the patient movement system.

(ii) When the Government provides medical or emergency dental treatment or transportation of contractor personnel to a selected civilian facility, the contractor shall ensure that the Government is reimbursed for any costs associated with such treatment or transportation.

(iii) Medical or dental care beyond this standard is not authorized unless specified elsewhere in this contract.

(3) Unless specified elsewhere in this contract, the contractor is responsible for all other support required for its personnel engaged in the theater of operations under this contract.

(n) Compliance with laws and regulations. The contractor shall comply with, and shall ensure that its personnel supporting US Armed Forces in the ROK as specified in paragraph (b)(1) of this clause are familiar with and comply with, all applicable—

(1) US, host country, and third country national laws;

(2) Treaties and international agreements;

(3) US regulations, directives, instructions, policies, and procedures; and

(4) Orders, directives, and instructions issued by the COMUSK relating to force protection, security, health, safety, or relations and interaction with local nationals. Included in this list are force protection advisories, health advisories, area (i.e., “off-limits”), prostitution and human trafficking and curfew restrictions.

(o) Vehicle or equipment licenses. IAW USFK Regulation 190-1, contractor personnel shall possess the required licenses to operate all vehicles or equipment necessary to perform the contract in the theater of operations. All contractor employees/dependents must have either a Korean driver’s license or a valid international driver’s license to legally drive on Korean roads and must have a USFK driver’s license to legally drive on USFK installations. Contractor employees/dependents will first obtain a Korean driver’s license or a valid international driver’s license then obtain a USFK driver’s license.

(p) Evacuation.

(1) If the COMUSK orders a non-mandatory or mandatory evacuation of some or all personnel, the Government will provide assistance, to the extent available, to US and third country national contractor personnel.

(2) Non-combatant Evacuation Operations (NEO).

(i) The contractor shall designate a representative to provide contractor personnel and dependents information to the servicing NEO warden as required by direction of the responsible officer.

(ii) If contract period of performance in the ROK is greater than six (6) months, non-emergency essential contractor personnel and all IC/TR dependents shall participate in at least one USFK sponsored NEO exercise per year.

(q) Next of kin notification and personnel recovery.

(1) The contractor shall be responsible for notification of the employee-designated next of kin in the event an employee dies, requires evacuation due to an injury, or is missing, captured, or abducted.

(2) In the case of missing, captured, or abducted contractor personnel, the Government will assist in personnel recovery actions IAW DoD Directive 2310.2, Personnel Recovery.

(3) IC/TR personnel shall accomplish Personnel Recovery/Survival, Evasion, Resistance and Escape (PR/SERE) training IAW USFK Reg 525-40, Personnel Recovery Procedures and USFK Reg 350-2 Theater Specific Required Training for all arriving personnel and units assigned to, rotating to, or in temporary duty status to USFK.

(r) Mortuary affairs. Mortuary affairs for contractor personnel who die while providing support in the theater of operations to U.S. Armed Forces will be handled IAW DoD Directive 1300.22, *Mortuary Affairs Policy* and Army Regulation 638-2, *Care and Disposition of Remains and Disposition of Personal Effects*.

(s) USFK RO. The USFK appointed RO will ensure all IC/TR personnel complete all applicable training as outlined in this clause.

International Trafficking in Arms Regulation (ITAR) Contract Clause (22 CFR Parts 120-130)

During the performance of this contract, contractor personnel may be required to attend and/or participate in activities and meetings with non-US (foreign) personnel, in foreign countries or within the US, which may include disclosure of technical data and provisions of defense services that are subject to the ITAR.

4,2 Appendix B – ACRONYMS

Acronym	Meaning
24 AF	24th Air Force
2D	2-dimensional
3D	3-dimensional
3IS	Innovation, Integration, and Information Support
50 SW	50th Space Wing
576 FLTS	576th Flight Test Squadron
A/V	Audio/Visual
AAR	After Action Report
ACC	Air Combat Command
AF	Air Force
AFB	Air Force Base
AFGSC	Air Force Global Strike Command
AFI	Air Force Instruction
AFOSH	Air Force Occupational and Environmental Safety, Fire Protection, and Health
AFPD	Air Force Policy Directive
AFSOUTH	Air Force Southern
AFS	Air Force Station
AFWAY	Air Force Way
AIS	Automated Information System
ANSI	American National Standards Institute
ARC	Analysis Review Committee
AOC	Air Operation Center
ATM	Asynchronous Transfer Mode
ATR	Antiterrorism Representative
BAA	Broad Agency Announcements
BECO	Base Equipment Control Office
A&A	Assessment and Authorization
C&LR	Capabilities & Limitations Reports
C2	Command and Control
C4I	Command, Control, Computer, and Communications
C4ISR	Command, Control, Computer, Communications, and Intelligence, Surveillance, and Reconnaissance
CAF	Combat Air Forces
CAOC	Combined Air Operations Centers
CC	Commander
CDRL	Contract Data Requirements List
CD-ROM	Compact Disc-Read Only Memory
CENTAF	United States Central Commander Air Forces
CFR	Code of Federal Regulation
CIA	Central Intelligence Agency
CLIN	Contractor Line Identification Number
CMST	Computer Maintenance Support Technician
CO	Contracting Officer
COCOM	Combatant Command
COI	Critical Operational Issue
COMINT	Communications Intelligence
COMSEC	Communication Security
CONOPS	Concept of Operations
CONUS	Continental United States

Acronym	Meaning
COR	Contracting Officer's Representative
COTS	Commercial Off The Shelf
CPM	Contractor Program Manager
CRB	Combined Review Board
CRYPTO	Cryptographic
CSAF	Chief of Staff, United States Air Force
CSEL	Combat Survivor Evader Locator
CSIR	Communication and Information Systems Installation Record
CSpOC	Combined Space Operations Center
CSRD	Communication System Requirement Document
CVW	Collaborative Virtual Workspace
CWSAT	CSEL Web Server Application Trainer
D/G	Directive Guidance
DAA	Designated Approval Authority
DAR	Detailed Analysis Report
DCPM	Deputy Contractor Program Manager
DD	Department of Defense
DEO	Designated Escort Official
Det	Detachment
DFARS	Defense Federal Acquisition Regulation Supplement
DIA	Defense Intelligence Agency
DICE	Distributed Information Warfare Constructive Environment
DIFC	Data Integration and Fusion Center
DIS	Distributed Interactive Simulation
DJSIG	DoD Joint Security Implementation Guide
DMAP	Data Management and Analysis Plan
DMO	Distributed Mission Operations
DMOC-S	Distributed Missions Operations Center-Space
DMO-S	Distributed Missions Operations-Space
DNI	Department of National Intelligence
DoD	Department of Defense
DOE	Design of Experiment
DORB	Daily Operations Review Board
DOS	Disk Operating System
DR	Deficiency Report
DRB	Deficiency Review Board
DREN	Defense Research and Engineering Network
DRMD	Deployments Requirements Manning Document
DRMO	Defense Reutilization Marketing Office
DSN	Defense Switched Network
DVD	Digital Video Disc
EADSIM	Extended Air Defense Simulator
EC	Equipment Custodian
ECG	Exercise Control Group
ECT	Exercise Coordination Team
ELINT	Electronic Intelligence
EO	Executive Order
EOA	Early Operational Assessment
EPA	Environmental Protection Act
ERR	Exercise Readiness Review
ESC	Electronic Systems Command

Acronym	Meaning
eTOMS	Electronic Task Order Management System
FAR	Federal Acquisition Regulation
FDE	Force Development Evaluation
FL	Florida
FSC	Facility Security Clearance
FTS	Federal Telecommunications System
GBS	Global Broadcast Service
GCCS	Global Command & Control System
GEG	GPS Environment Generator
GFE	Government Furnished Equipment
GOTS	Government Off The Shelf
GSA	General Services Administration
GSU	Geographically Separated Unit
HAZMART	Hazardous Materials Pharmacy
HAZMAT	Hazardous Materials
HAZWASTE	Hazardous Waste
HLA	High Level Architecture
HMMP	Hazardous Material Management Plan
HOSP	Hardware-Operating Systems-Peripheral
HQ	Headquarters
HTML/XML	Hyper Text Markup Language/Extensible Markup Language
IA	Information Assurance
IAO	Information Assurance Officer
IAVM	Information Assurance Vulnerability Management
IAW	In Accordance With
IMINT	Imagery Intelligence
INFOSEC	Information Security
ISR	Intelligence, Surveillance, Reconnaissance
ISSA	Integrated Solutions for Situational Awareness
IT	Information Technology
ITAR	International Traffic in Arms Regulation
ITEC	Information Technology Equipment Custodian
ITT	Integrated Test Team
IWS	Information Work Space
JBUS	Joint Simulation BUS
JMD	Joint Manning Document
JMS	JSpOC Mission Systems
JTEN	Joint Training and Experimentation Network
JTR	Joint Travel Regulation
LAN	Local Area Network
M&S	Modeling and Simulation
MAJCOM	Major Command
MASINT	Measures and Signatures Intelligence
MDIOC	Missile Defense Integration and Operations Center
MDST	Missile Defense Space-Warning Tool
MERIT	Military Exploitation of Reconnaissance and Intelligence Technology
MOE/MOS	Measure of Effectiveness and Suitability (also known as Characteristics)
MOP	Measure of Performance
MOU/MOA	Memorandum of Understanding/Memorandums of Agreement
NAC	National Agency Check
NFPA	National Fire Protection Association

Acronym	Meaning
NGA	National Geospatial-Intelligence Agency
NISPOM	National Industrial Security Program Operating Manual
NOTAM	Notice To Airmen
NRO	National Reconnaissance Office
NSA	National Security Agency
NTISR	Non-Traditional Intelligence, Surveillance, Reconnaissance
OA	Operational Assessment
OCONUS	Outside Continental United States
ODC	Other Direct Cost
OI	Operational Instruction
OPSEC	Operations Security
ORA	Operations Research Analyst
ORP	Operations Review Panel
OSD	Office of the Secretary of Defense
OSH	State Occupational Safety and Health
OSHA	Occupational Safety and Health Act
OT&E	Operational Test and Evaluation
OUE	Operational Utility Evaluation
PACAF	Pacific Air Forces
PAD	Project/Planning Approval Document
PAR	Program Access Requests
PC	Personal Computer
PDS-M	Processing Display Subsystem Migration
PFPS	Portable Flight Planning System
PM	Program Manager
PMR	Program Management Reviews
POR	Program of Record
PWS	Performance Work Statement
QAMR	Quality Assurance Management Report
QAP	Quality Assurance Personnel
R	Regulation
RCRA	Resource Conservation and Recovery Act
ROM	Read Only Memory
RTGIS	Real Time Geographical Information System
SAP	Special Access Program
SAR	Special Access Required
SATCOM	Satellite Communication
SBD	Space Base Delta
SBMCS	Space Battle Management Core Systems
SBSS	Standard Base Supply System
SCI	Sensitive Compartmented Information
SCIF	Sensitive Compartmented Information Facility
SDS	Safety Data Sheet
SEO	Standard Escort Official
SEP	Service Exercise Plan
SF	Space Flag
SFB	Space Force Base
SGI	Silicon Graphics, Inc.
SBIRS	Space Based Infrared System
SIGINT	Signals Intelligence
SMF	Space Mission Force

Acronym	Meaning
SMO	Support to Military Operations
SMS	Schedule Management System
SOCOM	Special Operations Command
SOF	Special Operations Forces
SOFA	Status of Forces Agreement
SOT	Science of Test
SOTR	Sufficiency of Operational Test Review
SPOT	Synchronized Pre-deployment & Operational Tracker
SpOC	Space Operations Command
SpRCO	Space Rapid Capabilities Office
SQL	Structured Query Language
SS	Service Summary
SSC	Space Systems Command
STAT	Scientific Test and Analysis Techniques
USSTRATCOM	United States Strategic Command
SUT	System Under Test
T1	T-carrier 1
T3	T-carrier 3
TADIL	Tactical Data Information Link
TBMCS	Theater Battle Management Core Systems
TD&E	Tactics Development and Evaluation
TDDS	Tactical Data Dissemination System
TDP	Tactical Data Processor
TEMP	Test and Evaluation Master Plan
TEP	Test Execution Procedure
TES	Test and Evaluation Squadron
TIBS	Tactical Information Broadcast System
TIPT	Training Integration Product Team
TO	Technical Order
TOW	Test Objective Worksheet
TPR	Test Planning Review
TRRB	Test Readiness Review Board
TS	Top Secret
TTP	Tactics, Techniques, and Procedures
UCC	Unified Combatant Command
UHF	Ultra High Frequency
UMD	Unit Manning Document
TPFDD	Time Phase Force Deployment Data
US	United States
USAFE	United States Air Force Europe
USC	United States Code
USSF	United States Space Force
VGSA	Visitor Group Security Agreement
WAN	Wide Area Network
WESP	Weapons System Evaluation Program
www	World-Wide Web

4.3 Appendix C - PUBLICATIONS

Unless identified as guidance, publications and referenced sub-indentured publications shall be considered directive when required to meet the intent of the prime publication. A guidance publication is included in the PWS to provide information and to advise the contractor in performing a particular task or carrying out an operation in a manner compatible with AF procedures. It is not directive upon the contractor. However, the contractor shall comply with the intent of the publication.

The contractor shall follow the most current version of the publications being used. Dates of the documents listed in the publications table are provided for reference only and does not alleviate the responsibility to follow the most current versions of the publication.

All documents and supplements shall be listed separately to avoid confusion.

Legend:
D: Directive Document
G: Guidance Document

Program Management			
D/G	Document/Date	Title	Tasking Paragraph
D	FCM, 08 Dec 17	Department of Defense Foreign Clearance Manual	1.2.2.2 1.2.2.2.1
D	eFCG (latest web version)	Electronic Foreign Clearance Guide	1.2.2.2 1.2.2.2.1
D	DoDM 5105.21-V3, 19 Oct 12	Sensitive Compartmented Information (SCI) Administrative Security Manual: Administration of Personnel Security, Industrial Security, and Special Activities	1.2.2.3
D	AFMAN14-304, 23 Dec 2016	The Security, Use, and Dissemination of Sensitive Compartmented Information (SCI)	1.2.2.3 1.2.2.3.1 1.2.2.3.3
D	DoDM 5205.07-V2, 24 Nov 2015 (incorporating change 1 effective 12 Feb 2018)	Special Access Program (SAP) Security Manual: Personnel Security	1.2.2.4
D	AFI71-101V4/26 Jan 2015	Counterintelligence	1.2.2.3 1.2.2.3.2x
D	SPOT Business Rules/14 Feb 2018	DoD Business Rules for the Synchronized Pre-deployment and Operational Tracker (SPOT)	1.2.2.5
D	JTR	Joint Travel Regulations	1.5.6.2

Information Management			
D/G	Document/Date	Title	Tasking Paragraph
D	DoDI 8500.01 / 14 Mar 14	Cybersecurity	1.4.5.1.3.2
D	SP 800-53v4, Sep 2020	Recommended Security Controls for Federal Information Systems, rev4	1.4.5.1.3.2 1.4.5.1.3.6
D	CNSSI 1253, 27 Mar 2014	Security Categorization and Control Selection for National Security Systems (5 “Attachments” CNSSI 1253F, 1 – 5)	1.4.5.1.3.2, 1.4.5.1.3.6

D	DoDI 8510.01/ 12 Mar 14 Change 2, 28 Jul 17	Risk Management Framework (RMF) for DoD Information Technology (IT)	1.4.5.1.3.2
D	DoD 8570-01M /19 Dec 05 Change 4, 10 Nov 15	Information Assurance Workforce Implementation Program	1.4.5.1.3.2
D	ICD 503/ 15 Sep 08	Intelligence Community Information Technology Systems Security Risk Management, Certification, and Accreditation	1.4.5.1.3.2 1.4.5.1.3.3 1.4.5.1.3.6 1.4.5.1.3.7
D	DJSIG / 11 Apr 16	DoD Joint Security Implementation Guide	1.4.5.1.3.2 1.4.5.1.3.3 1.4.5.1.3.6
G	DCID 6/3	Protecting Sensitive Compartmented Information Within Information Systems	1.4.5.1.3.6
D	AFPD 17-1 / 12 Apr 2016	Cyberspace	1.4.5.1.3.2 1.4.5.1.3.6 1.4.5.1.3.7
D	AFMAN 17-1203, 18 May 2018	Information Technology (IT) Asset Management (ITAM)	1.4.5.1.2.9, 1.4.5.1.2.11
G	AFMAN 17-1402 20 Jun 18	Clinger-Cohen Act Compliance	1.4.5
G	AFMAN 17-1302-O 8 Apr 20	Communications Security (COMSEC) Operations	1.4.5.1.3.10
D	AFSSI 7703, 26 Aug 08	Communications Security: Protected Distribution Systems (PDS)	1.4.5.1.3.2
G	AFI 17-130, 12 Feb 20	Cybersecurity Program Management	1.4.5.1.3.6 1.4.5.1.3.7
Security			
D/G	Document/Date	Title	Tasking Paragraph
D	AFI16-1404 29 May 2015	Information Security Program	1.4.1.2
G	AFI 10-701, 05 Jun 2011	Operations Security (OPSEC)	1.4.1.2
D	AFI 31-101, 05 Jul 2017	Integrated Defense (FOUO)	1.5.14.2.2
G	AFI 16-1406 (25 Aug 15)_	Air Force Industrial Security Program	1.4.1.2
D	AFI 16-1405, 01 Aug 18 AFGM2016-14 Nov 17	Personnel Security Program Management	1.4.1.2, 1.4.6.1.1.11
D	CJCSM 3213.02D	Joint Staff Alternative Compensatory Control Measures (ACCM) Program Management Manual	1.4.1.2.1
D	DoDM 5200.01, Vol 3 (incorporating CH-3, March 19, 2013)	DoD Information Security Program: Protection of Classified Information	1.4.1.2.1
D	AFI 16-1404	Air Force Information Security Program	1.4.1.2.1
Safety			

D/G	Document/Date	Title	Tasking Paragraph
G	AFI 32-7086 / 4 Feb 15	Hazardous Materials Management	1.5.9
G	AFI 91-202/11 Mar 20	The US Air Force Mishap Prevention Program	1.5.13.4
G	DAFI 91-204 / 27 Apr 18	Safety Investigations and Reports	1.5.13.1
G	OSHA Act of 1970	Occupational Safety and Health Act	1.5.13.1
G	U.S. Public Law 91-596	U.S. Public Law on Safety	1.5.13.1
G	RCRA	Resource Conservation and Recovery Act	1.5.8 1.5.9
G	Executive Order 13693	"Planning for Federal Sustainability in the Next Decade	1.5.8 1.5.9

Test and Evaluation			
D/G	Document	Title	Tasking Paragraph
D	DoDI 5000.02, 20 Jan 21	Operation of the Adaptive Acquisition Framework	1.4.4
D	DoDI 5000.89_DAFI 99-103 / 9 Dec 21	Capabilities-Based Test and Evaluation	1.4.4
D	DAFMAN 63-119 / 15 Apr 21	Mission-Oriented Test Readiness Certification	1.4.4
D	17 TES OT&E Guidebook / 9 Feb 21	17th Test and Evaluation Squadron OT&E Guidebook	1.4.4
G	17 TES OT&E Analyst Guidebook / 17 Sep 21	17th Test and Evaluation Squadron Analyst Guidebook	1.4.4
D	17 TES WSEP Guidebook / 19 Apr 21	17th Test and Evaluation Squadron Weapon System Evaluation System Guidebook	1.4.4
D	17 TES Cybersecurity OT&E Guidebook / 23 Dec 20	17th Test and Evaluation Squadron Cybersecurity Guidebook	1.4.4
G	DAU Test and Evaluation Management Guide	DoD Test and Evaluation Management Guide	1.4.4
G	AFI 10-601	Operational Capability Requirements Development	1.4.5
D	AFI 16-1001	Verification, Validation and Accreditation (VV&A)	1.4.4
D	AFMAN 63-119	Certification of System Readiness for Dedicated Operational Testing	1.4.4
G	AFPD 99-1	Test and Evaluation	1.4.4
D	Air Force Test and Evaluation Guidebook Ver 2.1	Air Force Test and Evaluation Guidebook Ver 2.1	1.4.4
G	CJCSI 3170.01I	Joint Capabilities Integration and Development System	1.4.4

D	DOT&E Cybersecurity Guidebook v1	DOT&E Cybersecurity Guidebook v1	1.4.4
D	DoDI 5000.61	DoD Mod Sim Ver Val Accreditation	1.4.4
392 CTS			
D/G	Document	Title	Tasking Paragraph
G	AFI 10-204 / 12 Apr 19	Chairman's Joint and National Exercises	1.4.3
G	JNTC Program Accreditation Report/ 10 Feb 22	Joint National Training Capability Space Flag Program Accreditation	1.4.3
G	SFI 10-204 / 9 Nov 21	USSF Exercise Enterprise	1.4.3
G	CJCSM 3500.03E / 20 Apr 2015	Joint Training Manual for the Armed Forces of the United States	1.4.3
G	CJCSM 3500.04F / 1 Jun 11	Universal Joint Task List (UJTL)	1.4.3
G	USSF SEP	USSF Service Exercise Plan	1.4.3
G	JNTC Site Certification Report / 27 Jul 18	Joint National Training Capability Site Certification Report	1.4.3

4.4 Appendix D - CONTRACT DATA REQUIREMENTS LISTING (CDRL)

NOTE: All deliverables shall be IAW the appropriate DIDs referenced. The following is the Contract Data Requirements Listing (CDRL) as it applies to this PWS.

CDRL	TITLE/SUBTITLE	DATA ITEM DESCRIPTION (DID)	PWS PARA
A001	Contractor's Progress, Status and Management Report	DI-MGMT-81904	1.4.2.1.1
A002	Developmental Design Drawings and Associated Lists	DI-SESS-81002F	1.4.3
A003	Contract Performance Report (CPR)	DI-MGMT-81466A	1.4.2.1.1
A004	Contract Funds Status Report (CFSR)	DI-MGMT-81468A	1.4.2.1.1
A005	Management Plan	DI-MGMT-80004A	1.4.2.1.1, 1.4.2.1.3.1
A006	Software Product Specifications (SPS)	DI-IPSC-81441	1.4.3.18
A007	Computer Software Products	DI-IPSC-81488	1.4.3.18
A008	Management Plan	DI-MGMT-80004A	1.4.2.2.4 1.4.2.2.5
A009	Scientific and Technical Reports	DI-MISC-80048	1.4.3, 1.4.4.1, 1.4.5.1.1, 1.4.6.1
A010	Mission Essential Support	DI-MGMT-80004A	1.3.13.2.2 , 1.4.5.1
A011	Briefing Materials	DI-MGMT-81605	1.4.4.1
A012	Conference Minutes	DI-ADMN-81250C	1.4.4.1
A013	Presentation Materials	DI-ADMN-81373	1.4.4.1
A014	Technical Reports – Study/Services	DI-MISC-80508B	1.4.4.1
A015	DoD M&S Accreditation Plan	DI-MSSM-81750	1.4.4.1
A016	DoD M&S Accreditation Report	DI-MSSM-81753	1.4.4.1
A017	Critical Task Analysis Report	DI-HFAC-81399B	1.4.4.1

A018	Quality Program Plan	DI-QCIC-81722	1.5.12.4

4.5 Appendix E – Modeling and Simulation Tools

NAME/ACRONYM	KEY FEATURES	VERSION	COMMENTS
Air Warfare Simulation (AWSIM)	AWSIM is a real-time, interactive, entity-level air simulation system for commanders, staff, and other organizations. AWSIM provides a robust capability for training, mission rehearsal, doctrine and procedures development, experimentation and operational plans assessment.	5.1.0.1	Primary use in DMOC-S is to support testing and verification of system configurations in preparation for major joint exercises.
Automated Scripter Simulator Exercise Trainer (ASSET)	ASSET is a Windows-based application that allows the operator to script friendly and enemy force movements, and then simulate the collection and dissemination of SIGINT and IMINT based on the script. Additionally will be used to provide space support to CSAR operations.	6.1.2	Global Lightning, Global Thunder, Space Scrimmage, Red Flag, Blue Flag, Virtual Flag, Weapons School Mission Employment, Combat Search & Rescue
Distributed Information Operations Constructive Environment (DICE)	Provides realistic, flexible modeling of integrated air defense systems, tactical systems, associated radar, communication and emissions into the distributed environment.	3.6.1	Ulchi Freedom Guardian
GPS Environment Generator (GEG)	The GEG creates a machine-to-machine interface in the DIS environment by which distributed exercise simulations and players can receive realistic navigation accuracy data in real-time.	1.2.0.37	Virtual Flag, Blue Flag, Advanced Concept Experiment (ACE)

Missile Defense Space Warning Tool (MDST)	MDST is a software product created to support Theater Missile Defense (TMD) and National Missile Defense (NMD) exercises, war games, tests, and integration events. MDST provides real-time interactive software that simulates current and future space-based launch detection in a networked simulation environment.	15.0.2	Global Lightning, Global Thunder, Austere Challenge, Space Scrimmage, Red Flag, Blue Flag, Virtual Flag, Weapons School Mission Employment, Ardent Sentry
National Wargaming System – Next Generation (NWARS-NG)	NWARS-NG supports military exercises and experiments by simulating the collection and reporting functions of national satellite intelligence systems.	2.0	Virtual Flag, Blue Flag, Northern Edge
SBIRS SST (Standard Space Trainer)	The SST provides a simulation capability that leverages the SBIRS baseline software combined with a Windows-Based OS interface to facilitate spacecrew participation during DMO events.	10-1	Virtual Flag, Global Thunder*, Global Lightning*, Ulchi Freedom Guardian*, Terminal Fury* (*future exercises pending system modifications)
Space Systems Generator (SSG)	The Space Systems Generator (SSG) provides space order of battle truth data through a DIS interface to stimulate DMO exercise and training events.	2.3	Virtual Flag, Blue Flag, ACE
Common Operating Pictures (COP)	The DMOC-S employs the services' standard COPs—Global Command and Control System (GCCS), Command and Control Personal Computer (C2PC), Processing & Display Subsystem-Migration (PDS-M), FalconView, and Standard Tactical Receive Equipment Display (STRED)	--	Various, as dictated by the exercise requirements

GCCS (Global Command & Control System)	GCCS provides the warfighter a fused picture of the Battlespace. It is an important corner stone for the midterm phase of the Command, Control, Communications, Computers and Intelligence for the Warrior (C4IFWTW) concept. GCCS will have the capability of meeting warfighter needs well into the 21st century. It incorporates the core planning and assessment tools required for the combatant commanders and subordinate joint force commanders and will meet the readiness support requirements of the services. GCCS is composed of several mission applications built to a single common operating environment networked to support sharing, displaying, and passing of information and databases. The GCCS infrastructure consists of a client server environment incorporating UNIX-based servers and client terminal workstations operating on a standardized Local Area Network (LAN). The GCCS infrastructure supports a communications capability providing data transfer facilities among workstations and servers.	--	Various, as dictated by the exercise requirements
GIANT (GPS Interface and Navigation Tool)	GIANT is a one versus many constructive and repeatable simulation tool used to determine Global Positioning System (GPS) and Inertial Navigation System (INS) performance and operational effectiveness in GPS interference or jamming environment. GIANT is PC-based, Government-Owned, and includes a graphical interface for setup and execution, some post-processing aids, and runs much faster than real-time. A GIANT simulation run consists of one GPS/INS-equipped platform moving along a pre-defined route, with optional air-to-ground to surface-to-surface munitions versus multiple targets, over digital terrain, on a WGS-84 ellipsoid and geoid, through a scenario consisting of zero to many GPS interference sources or jammers. AFSPC/XO declared GIANT 3.0 operational, Sep 2004, adding it to AOC baseline, 2005.	--	Various, as dictated by the exercise requirements

JDT (Joint Data Translator)	Joint Data Translator (JDT) is a government off-the-shelf (GOTS) software application. The purpose of this application is to support the DMOC-S. The system translates tactical data formats for dissemination throughout DMOC-S.	--	Various, as dictated by the exercise requirements
PDS-M (Processing & Display Subsystem Migration)	PDS-M is the replacement application for the Worldwide Origin and Threat System (WOTS) and provides missile warning information display for theater operators around the world. It takes information from the IBS-S and IBS-I as well as from strategic sources and provides the operator with strategic/theater space launch and missile warning.	11 v-1 2.0.2.0	Various, as dictated by the exercise requirements