United States Department of Agriculture

Agricultural Research Service

PERFORMANCE WORK STATEMENT

Electrical Gear and Transformer Maintenance

National Bio and Agro-Defense Facility (NBAF) USDA-ARS, Manhattan, KS

12/09/2025

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Project

Electrical Gear and Transformer service

General Information

1.0 Scope of Work

The contractor or individual is to provide subject matter expertise (SME), non-personal support services for Electrical gear and transformer maintenance and repair services to various electrical gear and transformer located at the National Bio and Agro-Defense Facility (NBAF). The goal is to support mission accomplishment by providing safe and operational electrical gear and transformers for the NBAF campus under this contract. To meet this goal, close coordination is required between the Contractor and the Contracting Officer's Representative (COR) to efficiently provide electrical gear and transformer maintenance services while minimizing disruptions to operations within the facilities and meeting security requirements. Current listing of electrical gear and transformer locations and data is in Technical Exhibit (TE-1). USDA-ARS shall not exercise any supervision or control over the task order service providers performing the services herein. Such service providers shall be accountable solely to the Contractor who, in turn is responsible to USDA-ARS.

Background

The National Bio and Agro-Defense Facility (NBAF) is seeking a company or individual with extensive knowledge and expertise Electrical gear and transformer services. The NBAF campus houses nine buildings covering 45 acres. The 574,000 SF main building contains multiple, state-of-the-art laboratories. The NBAF campus address is 1980 Denison Ave., Manhattan, KS.

3.0 Contractor Requirements

3.1 Work Restrictions & Conditions

- 3.1.1 Site Security Access: Access to the site is controlled by a security fence and a contractor check-in/check-out system. A current Real ID compliant, government issued photo identification is required for entry. All subcontractor and prime contractor personnel working on site must pass a Fitness suitability. Contractor/subcontractor vehicles will be checked at the main entrance gate. Badge issuance will occur once fitness determination and internal processes have been completed. The contractor identification badge must always be worn while on the site. See section 8 for additional security information.
- 3.1.2 All people accessing the site must watch and acknowledge the approximate 15 minute, NBAF Safety and Security video.
- 3.1.3 All contractor employees, including subcontractor employees, providing services for the NBAF shall read, acknowledge, and follow all applicable NBAF policies, SOPs, and guidelines.
- 3.1.1 Work shall be confined to the areas identified on the Drawings. Unless accompanied by a USDA employee, the Contractor, subcontractors, and their employees shall not enter buildings or facilities not specifically part of this project. Reasons included, but are not limited to, disease control and health requirements.
- 3.1.2 Failure to comply with access requirements shall be adequate grounds for the removal of the Contractor/subcontractor employees from the site and barring further site access to individuals.
- 3.1.3 Work Hours: Regular work hours for the site are 6:00 am to 6:00 pm, Monday through Friday, excluding Government holidays.

3.1.3.1 Federal Holidays are listed below:

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

3.1.4 Work Outside Regular Work Hours: Work scheduled outside regular work hours including late hours, Saturdays, Sundays, and Government holidays requires Security approval in advance. Make application through the COR at least 5 calendar days prior to such work to allow arrangements to be made by the Government for access to the work area and inspection & monitoring arrangements. Requests shall include the exact dates, hours, location, and purpose of the exception. If approved, the COR will coordinate access with the site security office.

3.1.5 The period of performance (POP) shall be for one (1) Base Year of 12 months and four (4) 12-month option-years. The POP reads as follows:

	Begin	End
Base Year	30 September 2026	29 September 2027
Option Year 1	30 September 2027	29 September 2028
Option Year 2	30 September 2028	29 September 2029
Option Year 3	30 September 2029	29 September 2030
Option Year 4	30 September 2030	29 September 2031

3.2 General Requirements/Tasks:

3.2.1 The Contractor shall furnish a detailed cost proposal, including all prime and sub pricing showing labor cost, material cost, OH and Profit and estimated service hours including crew size to provide services as specified in the scope of work. The Contractor's cost proposal must be submitted in whole dollars only. Proposals containing cents will be rejected as non-responsive.

3.2.2 In addition to the detailed cost proposal, to be considered technically acceptable, the Contractor shall submit both resumes for the key personnel and two (2) case studies of examples of past projects that are similar in scope to this project, including contract information for reference.

3.2.3 For NBAF Facility security purposes, the contractor must provide the CO with a list of all employees who will perform work under this contract. The contractor must maintain revisions and updates to this list and submit them to the COR monthly as needed. The contractor must furnish each employee with a contract identification badge that must be conspicuously displayed when working.

3.2.4 Building will be occupied while service is ongoing. The Contractor shall coordinate all work schedules with the Contracting Officer's Representative (COR) at least ten (14) calendar days in advance to prevent interference with critical NBAF research and facility operations. The COR has final approval authority over the work schedule.

3.2.5 Contractor personnel's conduct shall not reflect discredit upon USDA-ARS. The Contractor shall ensure that personnel conduct themselves and perform services in a professional, safe, and responsible manner and present a professional appearance.

3.2.6 The Contractor shall protect existing property and structures within the limits of the service activities. Any damage to property shall be repaired at the Contractor's expense, to pre-damaged conditions to the satisfaction of the COR.

3.2.7 The work performed under this contract shall be subject to continuous audit by CO/COR/LM. Quality control is the exclusive responsibility of the Contractor. The Contractor will evaluate their contract services, correcting any deficiencies, which deviate from the commercially acceptable standard for these services prior to delivering services reports.

3.2.8 Safety and health matters, as they relate to the work, are the exclusive responsibility of the Contractor. At a minimum a hard hat, safety vest, close-toed safety boots/shoes, and long pants shall be worn on site.

3.2.9 Contractor shall provide a work schedule for each system that includes plans for all preventative maintenance that conform to the manufacturer's recommended practice for the equipment listed in this work statement. The annual schedule shall be submitted to the COR NLT 14 working days prior to commencing work on this PWS. Updates to the schedule shall occur as needed but not less than annually.

3.2.10 Provide and keep current suitable Electrical gear and transformer log sheets for each system. The log sheets shall be kept in the appropriate machine rooms. Completed copies of the logs shall be submitted to the COR and a new log sheet started.

3.2.11 For all base and option year maintenance activities and services (hereafter, "Work") to be performed under this Contract, the Contractor shall develop and provide detailed, task-specific job plans and/or checklists for submission and approval which NBAF staff will utilize in NBAF's Computerized Maintenance Management System (Maximo). This system shall serve as the official repository and system of record for all job plans and/or checklists.

3.2.11.1 The Contractor shall not commence any Work requiring a Job Plan and/or Checklist until the COR has provided written approval. Approval by the COR shall not relieve the Contractor of its sole responsibility for the safety, quality, and performance of the Work in full compliance with all contract terms and applicable laws and regulations.

3.2.11.2 Any deviations or changes from approved Job Plans and/or checklists will require an updated submission for written approval by the COR before implementation. All completed Job Plans, Checklists and supplemental documentation shall be provided by the Contractor for record.

3.2.12 Provide daily service reports. all work that was done to the Electrical gear and transformer system including identification of all parts that were replaced, status of the systems upon departure, and date and initial log sheet. Detailed descriptions of the deficiencies with part numbers needing to be replaced shall be included in the reports.

3.2.13 If deficiencies are identified that require repairs outside the scope of this contract, the Contractor shall notify the COR in writing within 24 hours upon discovery of the deficiency.

3.2.14 All parts and/or materials replaced under this contract shall be turned over to the COR within seven (7) calendar days of installation for verification of defectiveness. Payment for replacement parts is contingent upon this verification.

3.2.15 The Contractor shall provide constant, high-quality service to properly protect all equipment from deterioration and to provide constant peak performance NBAF's electrical system, resulting in a minimization of long-term repairs, to minimize the number of service calls and to minimize downtime while maximizing customer satisfaction.

3.2.16 Maintain safe and operational systems

3.2.17 Schedule, administer, and provide agendas/minutes for coordination meetings.

3.2.18 Areas where services are rendered shall be free of all excess parts and materials, trash, and debris upon completion of service.

3.3 Service Requirements/Tasks: The contractor shall be responsible for all maintenance including preventative maintenance, routine Government requested service calls, repairs and replacements, and safety/performance inspections. The objective of this PWS is to provide complete and full preventive maintenance, service call response, repairs, testing/inspections and record keeping for the following equipment at NBAF:

- Campus wide 12.5kV, 480V, 208V electrical switchgear
- Transformers (exterior)
- Zig-zag Neutral Grounding Resistors Transformers
- ASCO Control Systems (OIT/RTU)
- ASCO Interface Displays
- All associated ASCO components, including three workstations and server
- SEL Protection Relays
- Power Logic Relays Monitors
- Quick Panel View OIT's
- UPS Fire Pump Backup Gear
- Static UPS transfer switches
- All associated relays, controllers, and surge suppression
- 12.5kV to 480V Transformer Qualitrol Monitor

Routine annual service shall consist of examination, minor adjustment, cleaning, and lubricating the equipment according to the equipment manufacturer's recommended service program. All work to be done shall be in accordance with NFPA 70,70B and 70E. All work not specifically mentioned, which is required to ensure that maintenance is complete and is within the intent of this contract, shall be performed without additional cost. Contractor shall perform, coordinate and complete the requirements of the task order in cooperation with any other contractors or trades performing work at NBAF promptly and diligently as required by the standards of this contract. The Contractor shall provide constant, high-quality service to properly protect all electrical gear and transformer equipment from deterioration and to provide constant peak performance of all electrical gear and transformer, resulting in a minimization of long-term repairs, to minimize the number of service calls and to minimize electrical gear and transformer downtime while maximizing customer satisfaction.

The Contractor shall perform electrical gear and transformer maintenance services to the standards in this task order and in a manner that will maintain safe and operational electrical gear and transformer for all items identified on TE-1. During the performance of this task order USDA-ARS reserves the right to add or delete electrical gears and transformers.

3.3.1 The contractor's key personnel shall obtain and maintain proper security levels to access the NBAF Campus. Contractor personnel shall be certified by appropriate federal and state regulatory agencies to meet federal and local certification requirements in maintenance of electrical gears and transformers. All work shall be performed with, and under the supervision of, skilled and experienced electrical gear and transformer mechanics directly employed by the Contractor, and certified in accordance with NFPA

70,70B and 70E. Proof of certification for each employee shall be available upon request to the CO no later than (NLT) the post award orientation for this contract. Contractor shall provide in writing a roster of key personnel working under this contract.

3.3.2 The Contractor should schedule service with the COR fourteen (14) days before time to preform service. The Contractor's service personnel shall contact the ARS Engineering Project Management Groups Contracting Officer Representative (COR) on each visit to the Facility prior to beginning work that day to inform the COR of what work is being completed during the visit. The COR shall escort or assign an escort to the Contractor's personnel while performing any duties within the facility. Within 24 hours of service rendered the contractor shall provide, in writing, a list of all work that was completed on any electrical gear and transformer and the status of the electrical gear and transformer upon departure.

3.3.3 The Contractor shall develop and implement a plan for communicating and reporting to USDA-ARS, the status of the Contractor's implementation of the contract requirements. The report shall be submitted to the COR monthly. The intent is to provide USDA-ARS, in writing, information about what maintenance, updates, changes, alterations, repairs and replacements have been made to each Electrical gear and transformer. This report shall accurately convey to USDA-ARS all work to the electrical gears and transformers including electrical room updates, service call trouble shooting, etc. The format shall be approved by the COR. Annual inspection reports shall be submitted to the COR fourteen (14) calendar days after the inspections are complete. If deficiencies are identified, the report must include a detailed description of the deficiencies.

3.3.4 The Contractor shall provide a work schedule for each electrical gear and transformer that includes plans for all preventative maintenance. Work schedules shall be designed for each type of equipment to be serviced and shall conform to the manufacturer's recommended practice for the equipment concerned. The annual schedule shall be submitted to the COR no later than ten (10) working days prior to commencing work on this contract. Updates to the schedule shall occur as needed but not less than annually. All inspections, lubrication, adjustments, tests, cleaning, routine repairing, and other preventative maintenance activities shall be performed in accordance with schedules submitted by the Contractor. If deficiencies are identified that require repairs outside the scope of this contract, the Contractor shall notify the COR in writing within 24 hours upon discovery of the deficiency.

3.3.5 The Contractor shall provide and keep current suitable electrical gear and transformer log sheets for each electrical gear and transformer. A log sheet shall be kept in the appropriate electrical room of the building in which the electrical gear and transformer are located. A copy of the log sheet shall be submitted to the COR for approval no later than ten (10) working days prior to commencing work. Once a log sheet has been completed a copy shall be submitted to the COR and a new log sheet starts. Upon completion of each preventative maintenance visit or service call, the contractor employee shall record all work that was done to the electrical gear and transformer including identification of all parts that were replaced, status of the electrical gear and transformer upon departure, and date and initial the log sheet.

3.3.6 The Contractor shall notify the COR each day in writing a Daily Report of all work that was completed on any electrical gear and transformer, the status of the electrical gear and transformer upon departure and a follow-up plan for any electrical gear and transformer left non-operational.

3.3.7 The Contractor shall be responsible for all maintenance including preventative maintenance, routine Government requested service calls, repairs and replacements, and safety/performance inspections. Work shall be performed in such a matter to meet the performance requirements stated herein.

3.3.8 The Contractor shall furnish all labor, tools, and equipment usually furnished with such service, unless stated elsewhere in this contract, and be fully responsible for performance of all electrical gear and transformer. All electrical gear and transformer maintenance shall be accomplished utilizing the latest technology, products, equipment, industry practices, and specifications (refer to 1.15.2). An electrical gear and transformer log sheet shall be maintained for each electrical gear and transformer

3.3.8.1 The Contractor shall determine appropriate preventative maintenance and frequencies for each electrical gear and transformer. Preventative maintenance shall be based on each electrical gear and transformer manufacturer's recommended preventative maintenance schedule. Each electrical gear and transformer must be maintained to the performance standards, which are determined at task order start.

3.3.8.2 Contractor shall ensure that the electrical gear and transformers operate properly and are always maintained in a clean and serviceable condition.

3.3.8.3 The contractor shall thoroughly clean all electrical gear and transformer electrical rooms.

3.3.8.4 The Contractor shall report to the NBAF COR any deficiencies found with other equipment in the electrical room that is not functioning properly, such as the air conditioning system.

3.3.9 Requested service calls are calls requested outside of the normal schedule as defined as preventative maintenance (section 3.2) or repairs (section 3.4). The Contractor shall respond within twenty-four (24) hours of receipt for service calls. On emergency repairs the contractor shall respond to emergencies that will affect the facility operations detrimentally as determined by the USDA Staff within 2 hours by phone and within 4 hours for an on-site service call. An electrical gear and transformer log sheet shall be maintained for each electrical gear and transformer

3.3.9.1 The Contractor shall notify the COR in writing of the outcome of the service call and the status of the electrical gear and transformer upon departure within 24 hours of responding to the service call.

3.3.9.2 After 4 service calls within the same year for the same electrical gear and transformer with similar complaints, it is determined by the CO that the issue is misdiagnosis and incorrect repair method on behalf of the contractor. The problem shall be corrected at no additional charge to the Government. Each instance will be evaluated on a case-by-case basis.

3.3.10 The Contractor shall provide only new parts used by the manufacturers of the equipment for replacement or repair, and to use only those lubricants obtained from and/or recommended by the manufacturer of the equipment. Equivalent parts, rebuilt parts or lubricants may be used only if approved in writing by the CO or COR.

3.3.11 The Contractor shall perform the inspections and tests described herein. All inspections shall be performed in accordance with the current edition of NFPA 70, 70B and 70E and all subsequent updates. USDA-ARS shall be advised a minimum of 30 days in advance of inspection/test days so that a representative of USDA-ARS may witness them. Any

required corrective work identified during these actions that is considered an item covered by this task order shall be scheduled immediately. Inspection/test results and certification of code compliance shall be submitted in writing to the COR within 14 calendar days of test completion.

3.3.11.1 The Contractor shall be responsible for ensuring electrical gears and transformers meet Federal, State and Local Codes, the most recent and applicable versions of NFPA, Preventive Maintenance Guides, industry standards, and the manufacturers' recommended standards of safety and reliability, ANSI, OSHA, NEC, and other applicable codes/requirements.

3.3.11.2 Performance Verification Testing to verify standards are being maintained shall be accomplished annually by the Contractor. The results of this testing shall be reported to the COR within 14 calendar days of test completion

3.3.11.3 After tests have been performed, all safety devices shall be checked and adjusted as required to meet manufacturer's recommendations.

3.3.12 The Contractor shall schedule reasonable downtime for electrical gear and transformer maintenance (i.e. temporarily placing a system in an "out-of-service" status). The maintenance downtime shall be scheduled with minimum interference to USDA operations and personnel. All scheduled downtime and any subsequent schedule changes shall be approved in advance by the COR. Downtime shall be scheduled to minimize the disruption caused by the electrical gear and transformer being out of service. Unless otherwise determined by the COR, all shutdowns will be accomplished during business hours.

3.3.12.1 If for any reason electrical gear and transformer should be out of service for more than one (1) hour, the Contractor shall notify the COR when the electrical gear and transformer was taken out of service, the reason why and what time the electrical gear and transformer is expected to be put back in service for proper and safe operation.

3.3.12.2 Should an electrical gear and transformer not be available for preventive maintenance as scheduled (due to task order or warranty work associated with another contract), contractor shall immediately notify the COR in writing for directions.

3.3.13 Equipment responsibilities:

3.3.14 Electrical Gear for all 12.5 KV equipment and ancillary equipment: Required to meet manufacturer's service recommendations

3.3.15 Electrical Gear to all 480V equipment and ancillary equipment: Required to meet manufacturer's service recommendations

3.3.16 Oil filled Power Transformer: Required to meet manufacturer's service recommendations

3.3.17 PLC Controllers: Required to meet manufacturer's service recommendations. Contractor needs to keep updated control program for replacement controller.

4.0 Government Furnished

N/A

5.0 Deliverables / Schedule

The Contract duration for this project is 365 calendar days from Notice to Proceed for the base year, with Four (4) Option Years, issued by Contracting Officer.

Key Deliverables

Item No.	*Deliverable / Item Title*	*Description*	*Frequency*	*Reference*	*Delivery Format*	*Due By*
1	*Contractor employee roster*	*Provide list of key personnel*	*Duration of contract*	*Ref. SOW, Section 3.3.1*	*In writing*	*Prior to work starting on site*
2	*Contractor Schedule*	*Provide schedule NLT 14 calendar days prior to work onsite*	*Duration required to complete tasks*	*Ref. SOW, Section 3.3.2*	*PDF to CO/COR*	*14 Calendar days prior to any work onsite.*
3	*Contractor communication plan*	*develop and implement a plan for communicating and reporting to USDA-ARS*	*Once prior to start of work*	*Ref. SOW, Section 3.3.3*	*PDF to CO/COR*	*Prior to work starting on site*
4	*Log Sheets*	*Provide log sheets for all pieces of equipment serviced each visit.*	*Duration required to complete task*	*Ref. SOW, Section 3.3.5, 3.2.9*	*Logs to be kept in electrical room and PDF shared to COR*	*After each site visit or task*
5	*Employee Resume/Past Projects*	*Provide USDA with Resumes and list of past projects*	*Duration of contract*	*Ref. SOW, Section 3.2.2*	*PDF to CO/COR*	*Prior to contractor or sub-contractors first time on NBAF campus*
6	*Daily Reports*	*Provide COR with daily events for each maintenance/repair visit.*	*Duration required to complete task*	*Ref. SOW, Section 3.3.6*	*PDF to CO/COR*	*Within 24 hours.*

6.0 Travel

There are no anticipated travel requirements. If travel costs, flights and per diem, are needed to get SMEs to the facility for services they shall be reflected on a separate cost line.

7.0 Contractor's Key Personnel

The contractor's key personnel shall be subject matter experts (SME), that have extensive experience working with electrical gear and transformer equipment, configuring and operational system changes based on industry best practices as it relates to servicing and maintaining the electrical system.

8.0 Site Specific Security Requirements

8.1 <u>Personnel Fitness and Access Authorization:</u> All contractor personnel requiring access, not in a visitor status, at National Bio and Agro-Defense Facility (NBAF), NBAF leased spaces, or access to NBAF digital systems, must successfully complete a Tier 2 background investigation, as defined by the Federal Investigative Standards. Physical site or digital access will not be granted until the investigation is adjudicated and approved by the USDA Personnel Security Office. The contractor shall ensure all personnel requiring routine site and any digital access meet suitability requirements prior to assignment at NBAF. The Prime Contractor is required to provide onsite escorts of contractor employees or any representative of, or agent of the contractor entering this facility. Contractor personnel will be provided with a two (2) week window to provide all documentation requested by USDA to complete their fitness determination.

Contractor employees must be US citizens. If contractor personnel do not pass fitness determination checks, they will not be allowed to perform work on this contract.

Contractor personnel shall comply with all personal identity verification requirements as directed by USDA. Each person accessing NBAF, or NBAF leased spaces, whether escorted or unescorted, will be required to provide personal details (i.e. full name, date of birth, social security number, driver's license number). Contractor personnel must have a REAL ID compliant identification before site access is permitted. An unexpired, active federal employee or military PIV/CAC card is also an acceptable form of identification.

8.2 Site-Specific Training Requirements: Prior to receiving access at NBAF in a capacity other than a visitor or authorization to access digital systems, contractor personnel shall complete a minimum of two (2) hours of site-specific training provided by USDA personnel. This training includes but is not limited to facility protocols, biosafety procedures, digital media control policies, and operational security. Additional or refresher training may be required based on mission needs, changes in facility operations, or updates to USDA or NBAF policy. Additional training may also be required if contractor personnel must enter any biocontainment space.

Contractors unable to access USDA training systems will be provided with alternative formats for training delivery and documentation.

Visitor training is also required for contractor personnel that will be in visitor status. This training is approximately 15 minutes in length and requires an acknowledgement form to be signed after viewing. Examples of potential visitors: Contractors performing site visits, external meeting attendees, mail, package, delivery persons, waste pickup, nitrogen deliveries, etc.

8.3 Digital Media Control, Permitting, and Storage Requirements: Contractor personnel are prohibited from using personal devices (e.g., smartphones, tablets, cameras) for any photography or videography on NBAF property. All digital media must be captured using Government-Furnished Equipment (GFE) and only with prior written authorization.

Contractors must obtain a Photography/Videography Permit through their Contracting Officer's Representative (COR) after completing all training requirements.

Media collection in Federal Select Agent Program (FSAP)-registered spaces additionally requires prior approval from the Responsible Official (RO) for each event. Any media intended for external release, or taken off NBAF property or system, must be reviewed and approved by both the NBAF Security and Communications Units.

Contractors must provide a secure, COR-approved method of storing digital media collected during contract performance. All media must be treated as Controlled Unclassified Information (CUI) where applicable.

Upon completion of contract, contractors must sanitize or destroy all digital media collected, with written verification submitted to the COR.

8.4 Compliance and Enforcement: Failure to comply with the provisions of this section may result in suspension or revocation of access privileges, removal of contractor personnel from NBAF, contract remedies as determined by the Contracting Officer, and referral to USDA Security and Counterintelligence for further action.

Contractors are expected to uphold NBAF's High-Reliability Organization (HRO) standards, including strict adherence to SOPs, immediate reporting of incidents, and maintaining situational awareness.

Contractors will follow Title 41, Code of Federal Regulations, Part 102-74, Subpart C Rules, and Regulation Governing Conduct on Federal Property while on NBAF, or NBAF leased spaces. Additional security requirements may be imposed by NBAF Security through general updates or when the Federal Government raises the Homeland Security Alert Level. Additional directions will be provided if the situation occurs.

All personnel entering the NBAF main campus are subject to personnel and vehicle inspections. Contractor personnel should expect up to 30 minutes of processing time every time they enter NBAF property. Any contraband, as defined in Title 41, Code of Federal Regulations, Part 102-74, Subpart C Rules, and Regulation Governing Conduct on Federal Property, found during processing may result in immediate personnel, and vehicle removal from the facility and removal from the contract.

9.0 Data Rights

Not Applicable

10.0 Section 508 – Electronic and Information Technology Standards

N/A

11.0 Performance Requirements Measures:

Performance Objective	Performance Indicator	Performance Standard	Acceptable Quality Level (AQL)	Method of Surveillance	Impact
Accuracy of Deliverables/ Services	*Services delivered as requested – Quantity / Quality (PWS, Section 3.3)*	*Deliverables match Services description*	*95% of all deliverables match service description and quality as defined in contractor's Project Quality Plan*	*Inspection of monthly deliverables.*	*Results will be included in contractor's CPARS*
Timeliness of Deliverables/ Services	*Services delivered as requested – Quantity / Quality (PWS, Section 3.3)*	*Services delivered by end dates established on contractor provided timeline (PWS, Section 3.3)*	*95% of all deliverables received by end dates established on contractor provided timeline*	*Inspection/comparison of monthly deliverables.*	*Results will be included in contractor's CPARS*

Attachment

Technical Exhibit 1 (TE-1) – Equipment Locations and Data

Room	Tag	Phase	Note			
PH.306	01-	3ND	HA1			Remote Terminal Units (RTU) Units #4 &5 Electrical Main Lab Penthouse 480VGear ASCO Control System SEL Protection Relays
PH.306	01-	3ND	HA2			
PH.306	01-	3ND	HA3			
PH.306	01-	3ND	HA4			
PH.306	01-	3ND	HB1			
PH.306	01-	3ND	HB2			
PH.306	01-	3ND	HB3			
PH.306	01-	3ND	HB4			
PH.306	01-	3ND	HC2			
PH.306	01-	3NS	HG1	A	B	
PH.306	01-	3NS	HG2	A	B	

PH.306	01-	3NS	HG3	A	B	Power Logic Monitors Quick Panel View OIT ALL associated relays, and controllers, and surge suppression Static UPS Transfer Switch 12.5kVto 208V Transformer Qualitrol Monitor
PH.306	01-	3ND	HG3			
PH.306	01-	3ND	HG4			
PH.306	01-	3ND	HG5			
PH.306	01-	3ND	HG6			
PH.306	01-	3ND	HG7			
PH.306	01-	3ND	HG8			
PH.306	01-	3ND	HG9			
PH.306	01-	2NT	LA1	Power Logic Monitor Only		
PH.306	01-	2NT	LA2	Power Logic Monitor Only		
PH.306	01-	2NT	LA3	Power Logic Monitor Only		
PH.306	01-	2NT	LA4	Power Logic Monitor Only		
PH.306	01-	2NT	LA5	Power Logic Monitor Only		
I.233	01-	2ND	LA1			
I.233	01-	2ND	LA2			
I.233	01-	2ND	LA3			
I.233	01-	2ND	LA4			
I.233	01-	2ND	LA5			
I.218	01-	2ND	LB1			
I.218	01-	2ND	LB2			
I.218	01-	2ND	LB3			
I.206	01-	2ND	LB4			
I.218	01-	2ND	LC1			
I.218	01-	2ND	LC2			
I.218	01-	2ND	LC3			
I.218	01-	2ND	LC4			
I.218	01-	2NP	HC3			
I.218	01-	2NP	HC4			
I.218	01-	2NP	HC5			
I.218	01-	2NP	HC6			
I.218	01-	2NP	HC7			
I.218	01-	2NP	HC8			
I.218	01-	2NP	HC9			
PH.306	01-	3ND	HB1			
PH.306	01-	3ND	HB2			

PH.306	01-	3ND	HB3			
PH.306	01-	3ND	HB4			
I.218	01-	2NT	LC1	Power Logic Monitor Only		
I.218	01-	2NT	LC2	Power Logic Monitor Only		
I.218	01-	2NT	LC3	Power Logic Monitor Only		
I.218	01-	2NT	LC4	Power Logic Monitor Only		
PH.308	01-	3UD	HG1			
PH.308	01-	3UD	HG2			
PH.308	01-	3UD	HG3			
I.218	01-	2UD	LG3			
I.218	01-	2UD	LG1			
I.218	01-	2UD	LG2			
PH.308	01-	STS	PH.308			
Room	Tag	Phase	Note			
CP.215	02-	2GT	SA1			
CP.215	02-	2GT	SA2			
CP.101	GR	273	01-1			
CP.101	GR	273	01-2			
CP.101	GR	273	01-3			
CP.101	GR	273	01-4	A	B	
CP.101	GR	273	01-5			
CP.101	GR	273	01-6			
CP.101	GR	273	01-7			
Room	Tag	Phase	Note			
CP.216	02-	2NS	HG1			
CP.216	02-	2NS	HG2			
CP.216	02-	2NS	HG3			
CP.216	02-	2NS	HG4			
CP.105	02-	1ND	HG3			Generator Power Command Electrical Paralleling Gear Zig-Zag Transformers ASCO Control
CP.105	02-	1ND	HG4			
CP.110	02-	1ND	HG5			
CP.110	02-	1ND	HG6	A	B	
TS.005	03-	0ND	HG1	A	B	
TS.005	03-	0ND	HG2	A	B	
TS.005	03-	0NG	HG1	A	B	
TS.005	03-	0ND	LG1			
TS.005	03-	0ND	LG2			

BD.203	04-	0ND	HG1			System SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression
BD.203	04-	0ND	HG2			
BD.203	04-	2NG	HG1			
BD.203	04-	2ND	LG1			Remote Terminal Units #1 &2 Electrical CUP, Transshipping, and Visitors Center 480V and 208V Gear ASCO Control System SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression 12.5kVto 208V Transformer Qualitrol Monitor
BD.203	04-	2ND	LG2			
TP.103	07-	1NP	HG1			
TP.103	07-	1NP	HG2			
B9 PH.100	09-	1NP	HG1			
CP.105	02-	1ND	HG1			
CP.105	02-	1ND	HG2			
CP.216	02-	2ND	HG1			
CP.216	02-	2ND	HG2			
CP.216	02-	2NM	HG1			
CP.216	02-	2NM	HG2			
CP.105	02-	1ND	HG1			
CP.105	02-	1ND	HG2			
CP.105	02-	1ND	HG3			
CP.105	02-	1ND	HG4			
CP.110	02-	1ND	HG5			
CP.110	02-	1ND	HG6			
CP.110	02-	1ND	HG7			
CP.110	02-	1ND	HG8			
CP.200	02-	2ND	LG1			

Room	Tag	Phase	Note

CP.217	02-	2LS	HG1	A	B	Remote Terminal Unit #3 Electrical CUP Life Safety Gear Automatic Transfer Switches USP Fire Pumps Backup Gear ASCO Control System SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression 12.5kV to 208V Transformer Qualitrol Monitor
CP.217	02-	2LA	HG1			
CP.217	02-	2LA	HG2			
CP.217	02-	FPC	P1EP			
CP.217	02-	FPC	P2EP			
CP.217	02-	2LD	HG1			
CP.217	02-	2LD	HG2			
CP.217	02-	2LD	HG3			
CP.217	02-	2LD	HG4			
Room	Tag			Phase		Note
CP.103	02-	1NG	SG1	A	B	CUP Main Landing Gear fed from Utility: ASCO Control System OIT/ RTU ASCO interface displays, and (ALL ASCO components) Electrical 12.5kV&208V Gear SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression
Room	Tag			Phase		Note
Outside	02-	2GT	SG1			Exterior Transformers Generator Paralleling 12.5kV Gear ASCO Control System OIT/ RTU ASCO interface displays, and (ALL ASCO components) Electrical 12.5kV&208V Gear SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression 12.5kV to 480V Transformer Qualitrol Monitor Zig-zag Neutral Grounding Resistors Transformers
Outside	02-	2GT	SG2			
CP.215	02-	2GG	SG1			
CP.215	02-	2GT	SA1			
CP.215	02-	2GT	SA2			
Room	Tag			Phase		Note
G.003	01-	0NS	HG1	A	B	Remote Terminal Unit #6 MAIN LAB Switchgear room: Electrical 480V and 208V Gear ASCO Control System SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression Static Transfer Switch
G.003	01-	0ND	HG2			
G.003	01-	0ND	HG4			
G.003	01-	0ND	HG1			
G.003	01-	0ND	HG3			
G.003	01-	0ND	HG5			
G.003	01-	0ND	HG3-6			
G.003	01-	0UD	HG1			
G.003	01-	0UD	HG2			
G.003	01-	0UD	HG3			
G.003	01-	0UD	LG1			

G.003	01-	0UD	LG2			12.5kV to 480V Transformer Qualitrol Monitor
G.003	01-	0UD	LG3			
O.241	01-	2UD	LG4			
O.241	01-	2UD	LG5			
G.003	01-	0ND	HE1			
G.003	01-	0UD	LG3			
G.003	01-	STS	G.003	A	B	
G.007	01-	0LD	HG1			
G.007	01-	0LD	HG2			
G.003	01-	0NT	LE1	Power Logic Monitor Only		
0.121	01-	1ND	LE1			
G.003	01-	0NT	LE2	Power Logic Monitor Only		
0.121	01-	1ND	LE2			
G.010	01-	0UD	HG1			
O.241	01-	2ND	HG1			
O.241	01-	2ND	LG1			
O.336	01-	3ND	LG1			
G.003	01-	2NT	LD1	Power Logic Monitor Only		
I.230	01-	2ND	LD1			
O.241	01-	2UD	LG4			
O.241	01-	2UD	LG5			
G.025.1	01-	0ND	LG1			
G.021.5	01-	0ND	LG2			
G.003	01-	0ND	LG3			
O.241	01-	2ND	LG1			
O.336	01-	3ND	LG1			

Room	Tag			Phase		Note
G.007	01-	0LA	HG1			Remote Terminal Unit #7 Electrical MAIN LAB Life Safety Gear Automatic Transfer Switches USP Fire Pumps Backup Gear ASCO Control System SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression 12.5kV to 480V Transformer Qualitrol Monitor
G.007	01-	0LA	HG2			

Room	Tag			Phase		Note
G.004	01-	0NG	SG1	A	B	MAIN LAB Main Landing Gear fed from CUP: ASCO Control System OIT/ RTU

						ASCO interface displays, and (ALL ASCO components) Electrical 12.5kV&480VGear SEL Protection Relays Power Logic Monitors Quick Panel View OIT ALL associated relays, controllers, and surge suppression

Room	Tag			Phase		Note
CP.203	01-	WKS	CP.203			All associated ASCO components and Control System Workstations ALL associated relays, controllers, and surge suppression
PH.310	01-	WKS	PH.310			
B3.121	01-	WKS	B3.121			