

EXHIBIT B
STATEMENT OF WORK
TASK ORDER 01 - Tweezer Substations Control House Replacement

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LIST OF ACRONYMS

Acronym	Definition
ACM	Asbestos Containing Material
CM	Construction Manager
EPP	Environmentally Preferable Products
ES&H	Environmental Safety and Health
FPDA	Fire Protection Design Analysis
FRD	Functional Requirements Document
FSS	Fire Suppression System
GFE	Government Furnished Equipment
GFP	Government Furnished Property
M&O	Maintenance and Operation
MSTS	Mission Support and Test Services, LLC
NFO	Nevada Field Office
NLV	North Las Vegas Facility
NNSA	National Nuclear Security Administration
NNSS	Nevada National Security Site
RCM	Radiological Control Manual
RGD	Radiation-Generating Devices
RPP	Radiation Protection Program
RWP	Radiological Work Permit
SCH	Substation Control House
SME	Subject Matter Expert
SEL	Schweitzer Engineering Laboratories
SSSP	Site-Specific Safety Plan
SOW	Statement of Work
STR	Subcontract Technical Representative
TRENWA	Precast trench system to bring all cables into Control House at one point

B-1 INTRODUCTION

1.1 Introduction

This Statement of Work (SOW) is for the services of the SUBCONTRACTOR in support of Mission Support and Test Services, LLC (MSTS) in accordance with the master agreement.

There are several Power Substations located at various locations across the NNSS. These Substation Control Houses are outdated and need to be redesigned with as much commonality as possible and rebuilt. Operational requirements, funding, and timing require a selective and flexible approach to execution. The intent of this Task Order is to partner with a SUBCONTRACTOR to perform Discovery as the Base Award. Upon completion of Discovery, CONTRACTOR may award the Options which are Planning and Develop, Design, and Construction of the first Substation Control House Tweezer. Additional Task Orders may be issued to design/build additional Substation Control Houses at the NNSS.

B-2 OBJECTIVE

MSTS requires the services of an experienced Power Systems SUBCONTRACTOR to:

- Thoroughly investigate and refine project scope, objectives, technical requirements, and potential constraints for a universal control house design.
- Define comprehensive functional and operational requirements for the substation control house design.
- Identify critical interfaces with existing substation infrastructure and NNSS systems.
- Assess site-specific conditions and environmental factors affecting the design.
- Establish and integrate preliminary and detailed technical specifications, safety standards, and regulatory compliance criteria into the design.
- Produce a construction-ready design package for Tweezer Substation Control House at the NNSS, that can be replicated to greatest extent possible at the other NNSS substations.
- As this is the first in several NNSS Substation Control House recapitalization efforts, the SUBCONTRACTOR will be required to demonstrate components and material included in the design which are viable for future NNSS Substation Control House recapitalization efforts.
- Execute Construction on the first Substation Control House Tweezer per approved Design.

B-3 DESCRIPTION OF WORK

The SUBCONTRACTOR shall provide technically qualified resources that work as a part of a team under the direct oversight of MSTS. SUBCONTRACTOR resources shall be responsible for independent planning, organizing, and performing a wide variety of non-hazardous specialized administrative/technical duties in support of the successful completion of goals and deliverables. Additionally, the SUBCONTRACTOR shall furnish all necessary labor, technical and professional services, supervision, materials, tools, equipment, consumables, and payment of any applicable taxes to perform all operations necessary and required to perform the scope as directed by MSTS.

Unless otherwise approved, the SUBCONTRACTOR shall work in accordance with MSTS subcontract requirements, operating policies and procedures and shall be responsible for execution of the work in accordance with the quality standards and requirements specified for the assigned project and facility.

3.1 Phase 1: Discovery

Upon CONTRACTOR authorization, the SUBCONTRACTOR shall perform the following activities.

3.1.1 Task Objectives to Phase 1:

The purpose of this phase is for SUBCONTRACTOR to thoroughly investigate and refine the project scope, objectives, technical requirements, and potential constraints to ensure a robust foundation for subsequent design and construction activities for current and future Substation Control Houses. The Primary objectives of the SUBCONTRACTOR are to:

- Define the functional and operational requirements for the new Tweezer substation control house.
- Identify critical interfaces with existing substation infrastructure and NNSS systems.

- Inspect and review up to Seven (7) identified Substation Control Houses for commonality of design.
- Assess site-specific conditions and environmental factors affecting the design, such as climate control, ventilation, rodent control laboratories and building access for large, bulky equipment.
- Establish preliminary technical specifications, safety standards, and regulatory compliance criteria.
 - Minimum requirements to include IBC 2015 and associated references, NFPA 70 – 2017, and IEEE C2 – 2017.
- Formulate a comprehensive project brief to guide subsequent design phases.

3.1.2 Tasks:

- **3.1.2.1 Information Review and Validation:**

- SUBCONTRACTOR shall complete and validate Discovery information provided by the CONTRACTOR.
- SUBCONTRACTOR shall physically inspect all current Substation Control Houses for the purpose of validating information to update and finalize the draft Functional Requirements Document (FRD). Will be in coordination with CONTRACTOR personnel. CONTRACTOR will provide all activity level work to open structures and provide access. SUBCONTRACTOR shall provide no activity level work.
- SUBCONTRACTOR shall obtain and incorporate any additional information needed to effectively complete Design, with the intent of maintaining as consistent and repeatable as possible design of parts, materials, switches.

- **3.1.2.2 Requirements Development:**

- SUBCONTRACTOR shall revise the Functional Requirements Document (FRD) (Appendix 1.2), to be reviewed by the CONTRACTOR'S Requirements Development and Planning Services (RDPS) group.
- SUBCONTRACTOR shall ensure that the design approach addresses and strives to eliminate a single point of failure.
- SUBCONTRACTOR shall ensure design utilizes CONTRACTOR's required standardized equipment

- **3.1.2.3 Discovery Summary Briefing:**

- SUBCONTRACTOR shall develop and deliver to the CONTRACTOR a comprehensive project briefing that covers the FRD and the SUBCONTRACTORS' understanding of stakeholder needs and expectations.

3.2 Option 1: Planning and Development

3.2.1 Task Objectives to Option 1:

This phase focuses on translating the validated requirements into a conceptual design and establishing the necessary project management frameworks for successful execution. The primary objectives are to:

- Produce a conceptual design that meets the validated functional and operational requirements.
- Identify and register potential risks for design, construction and service interruptions.
- Develop initial project planning documents, including a Work Breakdown Structure and associated dictionary.
- Define operational requirements during the construction phase to inform the final design.

3.2.2 Option 1 Tasks:

- **3.2.2.1 Universal Conceptual Design:** Produce and deliver a conceptual design to replace and construct the Substation Control House Tweezer based on the Subcontractor's approved Specification and Functional Requirements Document (FRD).
- **3.2.2.2 Risk Management:** Develop a Risk Register that identifies risks that may be realized during design and construction (template provided).
- **3.2.2.3 Project Planning Documents:** Develop and deliver a preliminary Work Breakdown Structure (WBS) and Associated Dictionary for the design and construction of Tweezer Substation Control House.

- **3.2.2.4 Operational Requirements During Construction:** Develop and provide an “Operational Requirements during Construction Document.” The SUBCONTRACTOR will work with the CONTRACTOR to identify and document operational requirements during the execution of the construction phase, affecting the final design. It is anticipated that this will require several meetings with the CONTRACTOR.
- **3.2.2.5 Artifact Update:** Update any artifacts developed in the Discovery phase, based on the planning phase of the project.

3.3 Option 2: Design

3.3.1 Task Objectives to Option 2:

This phase involves the detailed Architectural/Engineering (A/E) design for the Tweezer Substation Control House, culminating in a construction-ready design package. The primary objectives are to:

- Execute detailed A/E design to produce construction-ready drawings and specifications for a Tweezer Substation Control House.
- Design meets functional requirements per the FRD revised in Phase 1 of this subcontract.
- SUBCONTRACTOR shall use CONTRACTOR required hardware, equipment and software as specified in the FRD.
- Incorporate key design elements such as civil, communications, structural, electrical (including grounding) relay controls and Firmware mechanical, safety, and security systems.
- Develop comprehensive design documents that comply with all applicable codes, standards, and NNS requirements.
- Conduct systematic design reviews at specified completion percentages (30%, 60%, 90%, 100%) to ensure quality and stakeholder input.
- Produce deliverables necessary for long-lead item procurements and construction execution, including a definitive schedule.
- Develop a Bill of Materials

3.3.2 Option 2 Tasks:

3.3.2.1 Architectural/Engineering (A/E) Design: Perform A/E design requirements as noted in Appendix 1.1 (“Detailed Design Drawing Requirements MSTs Rev 01”) that meet the requirements in the FRD finalized in Base Award of this subcontract for Tweezer Substation Control House. Design shall utilize 3D modeling via Revit and 2D drawings with AutoCAD. Key design elements to be included are:

3.3.2.2 General Design Requirements:

- Provide design packages with all necessary details and data for a complete power system, including design construction drawings that illustrate the construction scope and support the required American Association of Cost Engineers (AACE) estimate class 2.
- Include preliminary design criteria, recommendations for construction, relevant performance standards, construction specifications, layouts, drawings, commissioning information, and other documents.
- Ensure 60% design includes specifications for long-lead items, ready for SUBCONTRACTOR procurement.
- A Fire Protection Design Analysis (FPDA) will be required to complete design of the Tweezer Control House. CONTRACTOR will start this analysis to determine if a Fire Suppression System (FSS) is required at 30% design review. Steps to complete this analysis:
 - SUBCONTRACTOR submits 30% design of Control House.
 - CONTRACTOR to perform FPDA.
 - CONTRACTOR shall provide FPDA in draft format to SUBCONTRACTOR at 60% Control House design review.
 - SUBCONTRACTOR shall submit 90% Control House design, incorporating recommendations from the draft FPDA provided.

- CONTRACTOR shall complete final FPDA revision once 90% Control House design is received.
 - SUBCONTRACTOR to incorporate final FPDA into final Control House design at 100% design submittal.
- Draft commissioning plan required at 60% design and final at 90%.
 - The design shall include functional and technical requirements, commissioning plan requirements, and alternative construction solutions.
 - Design documents shall comply with review recommendations made by the CONTRACTOR and refer to technical and functional requirements including Codes and Standards, Substitutions, Submittals, and Environmental, Safety, and Health (ES&H) specifications. Use wire color codes (ICEA E-1/E-2).

NOTE: Deviations from requirements, regulations, codes, standards, and guidelines shall require advance written authorization from the CONTRACTOR.

- **3.3.2.3 Long Lead Items**
 - SUBCONTRACTOR shall deliver specifications for CONTRACTOR approval for all long lead items at 60% design review.
- **3.3.2.4 Site Research:** All visits should be complete at Discovery and/or Planning and Development Phases and not required for Design. If requested by SUBCONTRACTOR, coordination with CONTRACTOR's STR is required.
- **3.3.2.5 Design Reviews:** The SUBCONTRACTOR shall submit for approval to Contractor at, 30%, 60%, 90%, and 100% design completion. The SUBCONTRACTOR shall initiate the next phase of Design only upon receipt of Contractor written approval.
 - **SUBCONTRACTOR shall conduct comment review session to discuss comments made by CONTRACTOR to ensure understanding and compliance** (as stated in Appendix 1.2 of Master Agreement).

3.4 Option 3: Long Lead Items

3.4.1 Long Lead Items

- SUBCONTRACTOR shall procure long-lead items in close coordination with the CONTRACTOR.
- At the 60% design stage, SUBCONTRACTOR shall have identified long lead items and provided complete design and procurement specifications, design analysis and calculations necessary to support early procurement of these items. Option 3 may be exercised at any time thereafter.
- Title to all long-lead items procured by SUBCONTRACTOR shall vest in the Government upon CONTRACTOR'S acceptance of said items and payment for them.
- If requested by SUBCONTRACTOR, CONTRACTOR will identify a staging area on the NNS for receipt of long-lead items.
- SUBCONTRACTOR shall coordinate procured material delivery to designated area in advance with CONTRACTOR.
- Example of Long Lead Items:
 - Substation Control House Structure
 - Relays
 - Conductors
 - Insulators
- Long Lead Items may be identified as material with longer than four (4) month lead time.

3.5 Option 4: Construction

3.5.1 Tasks to Option 4 Construction:

3.5.1.2: Construct Facility:

- Construction of Tweezer Substation Control House per design specifications. SUBCONTRACTOR shall, to the greatest extent possible, fabricate and test offsite, and transfer to site location for final assembly, and commissioning.
 - CONTRACTOR must be notified 2 weeks prior to factory acceptance testing so travel arrangements can be made to witness the test.
 - Size must be able to transport on truck on roadway.
- SUBCONTRACTOR shall demolition and dispose of existing Control House and shall coordinate this activity with the STR in advance.
- CONTRACTOR prior to demolition shall identify and remove all Government accountable equipment for formal disposal through the Excess Material Property Section. In addition, CONTRACTOR may identify specialty equipment and materials that are in service in the other seven Control Houses and can be used for repairs and will move items to an approved Government facility. This might include batteries, chargers and commonly used control and protection relay equipment.
- Any remaining equipment and materials that is not salvageable will be removed by the SUBCONTRACTOR and placed in CONTRACTOR provided Excessing Bins for disposal. The building, or portion thereof, will be disposed of on the NNSS. No materials will leave the NNSS with the option of taking this to the Area 10 Disposal Site.
- If any perimeter fencing needs to be removed for access or construction activities, SUBCONTRACTOR shall rebuild perimeter to it original design intent.
- SUBCONTRACTOR shall utilize the location of the existing Control House to place and construct the new Tweezer Substation with the intent of reusing the newly installed armor cable(s) in the TRENWA.
 - SUBCONTRACTOR shall fully connect the new Control House with existing Substation wiring.
 - Outage period to include demolition, installation, startup and commissioning must be limited to 120 days or less to support NNSS operations.
 - SUBCONTRACTOR shall provide all necessary labor, tools, equipment, and material for construction, connectivity and commissioning. SUBCONTRACTOR shall submit a Waste Management Plan to CONTRACTOR for approval before construction activities begin. Plan should include construction and non-construction related materials. Quality Control/Assurance and Inspections
 - Perform all inspection in accordance with subcontract documents, using a third-party inspector. Those third-party inspectors shall be hired by the SUBCONTRACTOR and shall report their findings directly to the CONTRACTOR and SUBCONTRACTOR.
 - Provide a Quality Control Plan to include a schedule that details what and how inspections will be performed and how the results will be documented.
 - Perform the Quality Assurance checks for readiness to formally demonstrate functionality of equipment and systems. These are to be documented by SUBCONTRACTOR. In addition, ensure that these checks are coordinated with the STR.
 - A Functional Acceptance Test (FAT) will be required with CONTRACTOR personal to witness and verify. FAT plans must be documented in the commissioning plan.
- Work Planning (move ahead of turnover/Commissioning)
 - SUBCONTRACTOR shall develop and coordinate with the STR for the development of necessary activity level work documents in accordance with Exhibit E of this subcontract.
 - Activity level work documents must be completed two (2) weeks prior to the construction activities outlined in the work package.
 - Authorization must be obtained in advance for transporting and using electronics with Wi-Fi/Bluetooth capabilities, laser or radiological devices, (e.g. nuclear density gauge), and Global Positioning System.

3.5.1.3 Post Construction Activities

- Whole Control House Commissioning (CX)
 - SUBCONTRACTOR shall complete all pre-functional checklists and demonstrate equipment and system functional performance through testing directed by qualified commissioning agent. Before completion of all work on-site
 - Resolve any issues found not meeting the subcontract requirements
 - A Functional Acceptance Test (FAT) will be required with CONTRACTOR personal to witness and verify. FAT plans must be documented in the commissioning plan.
- Turn Over
 - Punch list items shall be completed as outlined in the subcontract documents.
 - CONTRACTOR Beneficial Occupancy Inspection program/requirements shall be met, and SUBCONTRACTOR is responsible to provide a building that can pass Building Occupancy Inspections (BOI) in accordance with CONTRACTOR's CD-5400.003, "Beneficial Occupancy Inspections (BOI) in accordance with CONTRACTOR's CD-5400.003, "Beneficial Occupancy Inspection Process."
 - Training of CONTRACTOR maintenance crew on operation and maintenance of the building systems.
 - Warranty certificates and O&M manuals shall be provided a week before building turnover.
- Safety Program must comply with all CONTRACTOR safety requirements.
- Any arc flash labeling must be applied and conforms to CONTRACTOR's Electrical Safety program, CD-0280.026. Any analysis done in support or arc flash analysis will be completed utilizing SKM Power tools.
 - A full-time CONTRACTOR, approved safety representative must be present during all construction activities.

3.6.1: As-Built Documentation:

- Assist in the completion and finalization of all as-built drawings. All native files of design documents shall be provided to CONTRACTOR.

3.6.2: Lessons Learned and Artifact Close-Out:

- Collaborate with the CONTRACTOR to develop comprehensive lessons learned documentation.
- Ensure all project artifacts are properly closed out and archived.
 - Lessons Learned Sessions
 - All risks have been closed and risk register completed.
 - Project close out report
 - Validate all project documents received
 - Customer feedback captured
 - As-builts have been created for all red-line drawings or field changes

3.7 ASSUMPTIONS

The SUBCONTRACTOR shall operate under the following assumptions:

- Contractor personnel are available Monday – Thursday, 7:00 AM – 5:30 PM, except for MSTs identified holidays, for coordination and engagement.
- Regular communication will be required with the STR throughout all phases.
- CONTRACTOR will review and approve with or without comments each schedule item prior to the SUBCONTRACTOR initiating work on the subsequent phase.

- Any required power outages shall be coordinated with CONTRACTOR at least 30 days in advance of requested outages.
- The SUBCONTRACTOR is responsible for ensuring all files are scanned and free of any viruses prior to submittal.

3.8 Acceptance Criteria

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

Acceptance shall be determined via compliance with this Task Order and the Master Agreement. The SUBCONTRACTOR shall ensure qualified personnel, including each respective engineering discipline, is assigned to perform the work, oversee Task Order performance, and assure the quality meets CONTRACTOR expectations. SUBCONTRACTOR shall ensure timely completion of Submittals as required by Appendix A, Submittal Register. All submittals provided under this Task Order shall be certified or approved by appropriate authority.

Phase 1 Discovery

- A report that documents the execution of Discovery
- An FRD similar to CONTRACTOR's FRD format and template

Option Planning and Development

- The Conceptual design will explore potential solution(s) that meets the requirements of the FRD. It shall focus on the big picture, transforming abstract ideas into a tangible vision. The primary goal is to find the most compelling and feasible design idea that meets project goals, user needs, and constraints like budget and technical feasibility.
- Risk Register will identify risks during design and construction, as detailed on the Risk Register template provided.

Option Design

- The Detailed Design and additional deliverables for Substation Control Houses will be produced as stated in this SOW and associated Specifications.

Option Construction

- Waste Management Plan
- Quality Control Plan
- Commissioning Plan
- Punch List
- Factory Acceptance Test
- Building Occupancy Inspection
- O&M Manuals

3.9 Site Conditions and Known Hazards (Facility Specific)

Site facility specific conditions/requirements and known hazards are incorporated in this SOW.

3.9.1 Asbestos	
<input checked="" type="checkbox"/>	It is NOT expected.

<input type="checkbox"/>	<p>It IS expected that asbestos-bearing materials will be encountered during the performance of this work.</p> <p>3.10 The SUBCONTRACTOR shall submit an Asbestos Abatement Plan for STR approval prior to start of work, which meets all the criteria of OSHA 29 CFR 1926.1101, "Asbestos." The Asbestos Abatement Plan shall identify the procedures that will be used to remove and dispose of all asbestos-containing materials that may be encountered during work performed under this Subcontract. These items include, but are not limited to, piping insulation, floor tiles, ceiling tiles, and boilers.</p> <p>3.11 Supervision of the asbestos abatement work shall be performed by a federal, state, or local accredited/licensed competent person (as defined by OSHA 29 CFR 1926.1101) employed by the SUBCONTRACTOR and who will be at the worksite(s) at all times.</p> <p>3.12 Installation of asbestos containing material (ACM) in newly constructed facilities is prohibited. For all new facilities, certify that no ACM was used for building construction.</p>
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3.9.2 Silica	
<input type="checkbox"/>	It is NOT expected.
<input checked="" type="checkbox"/>	<p>It IS expected that silica-bearing materials will be encountered during the performance of this work and all activities that may potentially generate respirable silica.</p> <p>a. A SUBCONTRACTOR with employees potentially exposed to respirable crystalline silica (RCS) above 25 micrograms per cubic meter of air (25 ug/m³) as an 8-hour time-weighted average under any foreseeable conditions shall comply with the 29 CF 1910.1053, "Respirable Crystalline Silica," and/or 29 CFR 1926.1153, "Respirable Crystalline Silica."</p> <p>b. The SUBCONTRACTOR shall submit a Written Silica Exposure Control Plan (if applicable) to the CONTRACTOR for review and approval as part of the SSSP.</p> <p><i>NOTE: The CONTRACTOR's RCS Occupational Exposure Limit is 25 ug/m³ as opposed to OSHA PEL of 50 ug/m³.</i></p>

3.9.3 Toxic Metals (Lead, Cadmium, Mercury)	
<input checked="" type="checkbox"/>	It is NOT expected. However, since painted surfaces typically contain lead chromates, and many metals contain hexavalent chromium, the SUBCONTRACTOR is required to notify the STR prior to cutting, burning, welding or polishing of metal or painted surfaces. Potential for Batteries containing Lead acid or Lithium.
<input type="checkbox"/>	<p>It IS expected.</p> <p>a. A SUBCONTRACTOR with employees working in toxic metals contaminated areas shall submit a Written Toxic Metals Exposure Control Plan in accordance to the appropriate section of 29 CFR 1910 to the STR for review and approval as part of the SSSP.</p> <p>b. All SUBCONTRACTOR employees working under the accepted Written Toxic Metals Exposure Control Plan shall have been trained in accordance with the plan. Training records shall be submitted to the STR prior to the start of work.</p>

3.9.4 Hoisting and Rigging	
<input type="checkbox"/>	It is NOT anticipated that Hoisting and Rigging will occur during performance of the work. However, if the SUBCONTRACTOR's chosen means and methods include hoisting and rigging activities then all applicable requirements shall apply.

<input checked="" type="checkbox"/>	<p>It IS anticipated that Hoisting and Rigging will occur during performance of this work.</p> <ol style="list-style-type: none"> a. The SUBCONTRACTOR shall provide the resources necessary for inspection, certification, and maintenance of rigging and lifting equipment as well as monitor all lifts to ensure that regulatory lifting practices are followed by the MSTs Lifting SME. b. The SUBCONTRACTOR shall submit its 29 CFR 1926.1400, Subpart CC, "Cranes and Derricks in Construction" compliant program as part of the Environmental, Safety & Health (ES&H) program. c. The SUBCONTRACTOR shall designate a qualified supervisor to determine the methods and develop plans for rigging operations to ensure safe lifts. d. The SUBCONTRACTOR shall ensure all crane operations maintain minimum safe distances from all high voltage lines, as determined by the CONTRACTOR. Twenty feet is required for voltages up to 350 kV. At voltages greater than 350 kV, the distance shall increase as required. e. Cranes (Mobile) - The SUBCONTRACTOR shall provide the resources necessary for inspection, certification, and maintenance of rigging and lifting equipment and shall monitor all lifts to ensure that acceptable lifting practices are followed. f. Lift Plan requirements <ol style="list-style-type: none"> i. Lift plans are required to be submitted to the CONTRACTOR for concurrence. The SUBCONTRACTOR shall submit a detailed rigging plan with all applicable supporting calculations to the CONTRACTOR for review and acceptance prior to the lift. A Formal Lift Plan will be required for the following activities: <ul style="list-style-type: none"> • Excess of 5 tons • Lift classified as critical (exceeding 75% of crane capacity chart) • Any two-crane lift or any lift over operating or occupied facilities, process pipe racks or near power lines) • High value or long lead time item ii. The SUBCONTRACTOR shall designate a qualified supervisor to determine the methods and develop plans for rigging operations to ensure safe lifts. iii. The SUBCONTRACTOR is required to meet DOE Standard DOE-STD-1090-2020, "Hoisting and Rigging" for lift classification and lift plan requirements.
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3.9.5 Radiological Contamination	
<input checked="" type="checkbox"/>	It is NOT expected.
<input type="checkbox"/>	<p>It IS anticipated that work may be performed in radiological areas.</p> <ol style="list-style-type: none"> a. The SUBCONTRACTOR shall abide by the requirements of the current version of the NNSS Radiation Protection Program (NNSS RPP) as implemented with the NNSS Radiological Control Manual (NNSS RCM). <ul style="list-style-type: none"> • The NNSS RPP can be downloaded from the following web address: https://www.osti.gov/servlets/purl/1435448 • The NNSS RCM can be downloaded from the following: https://www.osti.gov/servlets/purl/1895616 b. The SUBCONTRACTOR shall abide by the CONTRACTOR'S radiological postings. c. The SUBCONTRACTOR shall make arrangements with the CONTRACTOR'S Radiological Control Division to develop adequate controls, prescribe protective measures, and generate required Radiological Work Permit (RWP) necessary to demonstrate compliance with the

NNS RPP.

- d. The SUBCONTRACTOR shall comply with all RWPs approved by the CONTRACTOR controlling the work performed by the SUBCONTRACTOR.
- e. The SUBCONTRACTOR shall provide a list of all equipment and materials expected to be utilized in areas controlled for radiological purposes and shall additionally disclose all heavy equipment to be brought on NNSA/NFO-managed property to the CONTRACTOR'S STR (to be provided to the Radiological Control Division), prior to arrival on NNSA/NFO property.
- f. All SUBCONTRACTOR-owned/rented/leased equipment and vehicles brought onto NNSA/NFO property are subject to radiological survey at any time during the contract period.
 - All SUBCONTRACTOR-owned/rented/leased heavy equipment utilized for soil disturbing or building demolition activities are required to undergo baseline and re-entry radiological surveys upon arrival at NNSA/NFO property or prior to use at the work site, as directed by the CONTRACTOR'S Radiological Control Division.
 - All SUBCONTRACTOR-owned/rented/leased equipment and vehicles are required to undergo radiological evaluation prior to removal from the work site and/or NNSA/NFO property.
 - All SUBCONTRACTOR-owned/rented/leased equipment and vehicles brought onto NNSA/NFO property that cannot meet established radiological release requirements shall not be removed from NNSA/NFO property.
- g. SUBCONTRACTOR shall require dosimeters, if used at the worksite, are exchanged by CONTRACTOR, as required, by the CONTRACTOR'S Radiological Control Division.
- h. Upon completion of work, the SUBCONTRACTOR shall return the dosimeters to the CONTRACTOR.
- i. When required, the SUBCONTRACTOR shall ensure radiobioassay samples from their employees are submitted to the CONTRACTOR'S Radiological Control Division and/or RWP.
- j. If the SUBCONTRACTOR is expecting to bring radioactive material/radioactive sources (including those contained within equipment) or radiation-generating devices (RGDs) onto NNSA/NFO property:
 - i. The SUBCONTRACTOR shall maintain radioactive material/radioactive sources per the CONTRACTOR'S direction.
 - ii. The SUBCONTRACTOR shall provide a planned schedule of moves or advise the CONTRACTOR'S STR (to be provided to the Radiological Control Division), in writing, prior to moving any radioactive source to, around, or away from CONTRACTOR-managed property. Prior approval to move such radioactive sources onto or from CONTRACTOR-managed property must be received from the CONTRACTOR'S Radiological Control Division.
 - (1) The SUBCONTRACTOR shall notify the CONTRACTOR'S Radiological Control Division immediately after they bring radioactive material/radioactive sources onto CONTRACTOR-managed property so a pre-use radiological survey can be performed by the CONTRACTOR.
 - (2) The SUBCONTRACTOR shall notify the CONTRACTOR'S STR prior to removing radioactive material/radioactive sources from CONTRACTOR-managed property so a post-use radiological survey can be performed by the CONTRACTOR.
 - iii. The SUBCONTRACTOR shall provide to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) prior to arriving onsite, a copy of the current applicable radioactive material license (Nuclear Regulatory Commission or applicable state reciprocity) or other approval to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) that gives the SUBCONTRACTOR authority to possess and operate the radioactive source/radioactive material or RGD (copy of current License for Industrial Radiography per 10 CFR 34, "Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic

	<p>Operations,") along with procedures for operating the device.</p> <ol style="list-style-type: none"> (1) The SUBCONTRACTOR shall have adequate controls, protective measures, and work control documents/procedures/permits as required under their approved radioactive material license (Nuclear Regulatory Commission or applicable state reciprocity) or other approval for all operations associated with SUBCONTRACTOR-owned radioactive material/radioactive sources or RGDs. (2) The SUBCONTRACTOR shall provide current leak test results, training records for RGD Operations, and source certificate/nominal activity sheets to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) prior to the radioactive source arriving on NNSA/NFO-managed property. (3) The SUBCONTRACTOR shall provide special form certificates, Department of Transportation shipping papers, and radioactive source container certifications, to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) upon entry to NNSA/NFO-managed property. (4) The SUBCONTRACTOR shall provide or make arrangements for transportation of radioactive source/radioactive materials in compliance with Department of Transportation regulations. (5) The SUBCONTRACTOR shall have a worker radiation safety plan as specified in 10 CFR 39, "Licenses and Radiation Safety Requirements for Well Logging," including Operating and Emergency procedures and Incident Reporting procedures.
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3.10 Delivery, Storage and Handling

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

3.11 Construction Facilities

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

3.12 SUBCONTRACTOR Requirements

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

3.13 Outage Requests

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

3.14 Building Occupancy Inspection Requirements

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement

B-4 PERSONNEL REQUIREMENTS

4.1. Training and Qualification

The SUBCONTRACTOR and its personnel shall attend the following site-specific training in the course of this work scope. NOTE site access may be delayed until training is completed or renewed. The SUBCONTRACTOR shall contact the STR to coordinate scheduling of training. See Section B-6, 6.4 *Badging*.

DESCRIPTION	DURATION	FREQUENCY
General Employee Radiological Training (GERT) (WBT 1E00W585)	0.5 Hour	730 days
CONTRACTOR's Lockout/Tagout/Tagging Authority Process (1E00W448)	1.0 Hour	730 days

DESCRIPTION	DURATION	FREQUENCY
NNSS Site Access Safety Orientation (1E00W102)	0.5 Hour	One time only
Protective actions (WBT 1REMPAW1)	0.5 Hour	365 days
Work Location Emergency Response Plan, Including Evacuation Alarms and Accountability (1REM050000)	3.0 Hours	One time only
Initial Security Briefing. DOE O 470.4B, "Safeguards and Security Program" (1S000110) as well as DOE O 470.4B Chg. 3 (Ltd.Chg.)	1 Hour	One time only
Integrated Work Control Process (IWCP) (WBT 1G00W552)	1 Hour	730 days

The SUBCONTRACTOR shall maintain training records for their personnel and ensure all required training is completed prior to work. Additionally, as soon as practical after award, the SUBCONTRACTOR shall submit a badge request for personnel required under the various releases for scheduling training and medical evaluation prior to crews being eligible for work on site.

4.2. Key Personnel Qualifications

Refer to positions in the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

Identify only the Key Personnel Positions that apply for this Task Order

The SUBCONTRACTOR shall submit a resume along with any documented applicable qualifications/certifications for approval prior to the SUBCONTRACTOR being authorized to proceed with work. The SUBCONTRACTOR shall submit for approval any changes in the Key Personnel representative assignments for approval.

4.2.1. Project Engineer/Engineering Manager

Leads teams of engineers to deliver high-quality products and solutions. Ensure projects are delivered on time, within scope, and to quality standards.

Responsibilities

- Engineering team leadership and development
- Manage and delivery design aspects of task orders
- Provide oversight during construction phase

Qualifications

- 8 years of experience in management, with a focus on project management and team leadership
- Bachelor's degree in Engineering or Architecture, or a Professional Engineer (PE) license

4.2.2. Lead Mechanical Engineer

Oversees mechanical engineering projects, leads a team, and ensures the design and implementation of mechanical systems meet performance and safety standards.

Responsibilities

- Lead the design, development, and implementation of mechanical systems, machinery, and equipment.
- Work closely with electrical, firmware, and software engineers to develop integrated solutions that meet performance, cost, and constructability goals.
- Provide technical support for inspection personnel, ensuring compliance with safety standards and regulations.
- Maintain accurate documentation of design processes, project specifications, and compliance with industry standards.
- Identify complex technical issues and develop effective solutions to eliminate root causes.

Qualifications

- Bachelor's degree in Mechanical Engineering, a related field, or a Professional Engineering license.

- 8 years of experience in mechanical engineering, with a focus on project management and team leadership.
- Proven experience in leading engineering teams and projects.
- Excellent problem-solving skills and attention to detail.

4.2.3. Lead Electrical Engineer

Oversee the design, implementation, and management of electrical systems, ensuring compliance with industry standards and project specifications.

Responsibilities

- Lead the design and development of electrical systems and components.
- Collaborate with cross-functional teams to integrate electrical designs with other systems.
- Ensure compliance with industry standards and regulations.
- Optimize design processes and methodologies for maximum efficiency.
- Review and approve technical drawings, specifications, and documentation.
- Conduct feasibility studies, risk assessments, and cost estimations for projects.
- Participate in project planning and management activities.
- Identify and implement innovative solutions to improve system performance.

Qualifications

- Bachelor's degree in Electrical Engineering, a related field or a Professional Engineering license.
- 8 years of experience in mechanical engineering, with a focus on project management and team leadership.
- Proven experience in leading engineering teams and projects.
- Excellent problem-solving skills and attention to detail.

4.2.4. Lead Civil/Structural Engineer

Oversee the design, evaluation, and implementation of civil and structural engineering projects, ensuring compliance with safety and regulatory standards.

Responsibilities

- Oversee the planning and execution of civil and structural engineering projects.
- Ensure compliance with industry standards, local codes, and safety regulations.
- Collaborate with architects, contractors, and other stakeholders.
- Perform structural analysis and calculations.
- Prepare and review engineering plans, specifications, and reports.
- Conduct site inspections and ensure quality control.
- Resolve technical issues and provide engineering solutions

Qualifications

- Bachelor's degree in Civil or Structural Engineering, or a Professional Engineer license.
- 8 years of experience in civil/structural engineering.
- Proven experience in leading engineering teams.
- Strong knowledge of engineering principles, codes, and standards.
- Excellent project management and organizational skills.
- Strong communication and interpersonal skills.

- Ability to work collaboratively in a team environment.

4.2.5. Lead Fire Protection Engineer

Responsibilities

- Oversee the planning and execution of engineering projects for fire protection systems and equipment.
- Ensure compliance with industry standards, local codes, and safety regulations.
- Collaborate with architects, contractors, and other stakeholders.
- Perform structural analysis and calculations.
- Prepare and review engineering plans, specifications, and reports.
- Conduct site inspections and ensure quality control.
- Resolve technical issues and provide engineering solutions.

Qualifications

- Bachelor's Degree in Fire Protection Engineering, or a Licensed Professional Engineer in Fire Protection.
- 5 years of experience in Fire Protection Engineering.
- Knowledge of NFPA Codes and Standards.
- Advanced technical writing and communication skills.

4.2.6 Construction Manager (CM)

Oversees construction projects, ensuring they are completed on time, within budget, and to the required quality standards.

Responsibilities

- Manage all phases of construction projects, from planning and budgeting to execution and completion.
- Coordinates with various stakeholders, including clients, contractors, and suppliers.
- Create and manage project schedules, ensuring that all tasks are completed on time and that resources are allocated efficiently.
- Supervise construction activities to ensure compliance with safety regulations and quality standards, addressing any issues that arise during the construction process.
- Identify and resolve issues that may impact project timelines or budgets, ensuring projects stay on track.

Qualifications

- Bachelor's degree in Construction Management, Civil Engineering, Architecture, a related field, or Certifications such as Certified Construction Manager (CCM) or Project Management Professional (PMP), or a Minimum of ten (10) years of experience managing large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
- Strong knowledge of construction principles, practices, and standards.
- Excellent project management and organizational skills.
- Strong communication and interpersonal skills.

4.2.7 Corporate Safety Officer

Ensure a safe and healthy work environment, compliance with safety regulations, and the development of safety programs and policies.

Responsibilities

- Develop and implement health and safety plans.
- Conduct regular safety inspections and audits to identify potential hazards and ensure compliance with local, state, and federal regulations.

- Lead safety training sessions to educate employees on best practice and required safety measures.
- Investigate accidents and incidents to identify root causes and recommend corrective actions to prevent future occurrences.
- Collaborate with management and employees to create a culture of safety and encourage open communication regarding safety concerns.

Qualifications

- Bachelor's degree in Safety Management or relevant field, or 5 years of proven work experience as a Safety Officer or similar role.
- Experience in writing reports and policies for health and safety.
- Familiarity with conducting data analysis and reporting statistics.
- Knowledge of potentially hazardous materials or practices.
- Experience in conducting safety drills and training.
- Strong communication and interpersonal skills.

4.2.8 Project Manager

Assists CM on construction projects, ensuring they are completed on time, within budget, and to the required quality standards.

Responsibilities

- Manage all phases of projects, from planning and budgeting, assembly and wiring to execution and completion.
- Coordinates with various stakeholders, including clients, contractors, and suppliers.
- Create and manage project schedules, ensuring that all tasks are completed on time and that resources are allocated efficiently.
- Supervise project activities to ensure compliance with safety regulations and quality standards, addressing any issues that arise during the construction process.
- Identify and resolve issues that may impact project timelines or budgets, ensuring projects stay on track.

Qualifications

- Bachelor's degree in Management, Electrical, Civil Engineering, Architecture, a related field, or Certifications such as Certified Construction Manager (CCM) or Project Management Professional (PMP)
- Minimum of five (5) years of experience managing large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
- Excellent project management and organizational skills.

4.2.9 Construction Superintendent

Oversees site construction, ensuring they are completed on time and to the required quality standards.

Responsibilities

- Manage construction sites for execution and completion.
- Coordinates with various crafts, contractors, and suppliers.
- Create and manage project schedules, ensuring that all tasks are completed on time and that resources are allocated efficiently.
- Supervise construction activities to ensure compliance with safety regulations and quality standards, addressing any issues that arise during the construction process.
- Identify and resolve issues that may impact project timelines or budgets, ensuring projects stay on track.

Qualifications

- Minimum of five (5) years of experience managing large scale construction work, similar in type, scope, and complexity as will be requested under the Agreement.
- Strong knowledge of construction principles, practices, and standards.
- Strong communication and interpersonal skills.

B-5 TECHNICAL SPECIFICATIONS AND DRAWINGS

The SUBCONTRACTOR shall perform work in accordance with the national codes, specifications, drawings, exhibits, and other documents, which by reference are made a part of the SOW.

Inspection of the work required by governmental agencies shall be arranged by the STR. The SUBCONTRACTOR shall request inspections through the STR, after the work is ready for inspection. In-process oversight of the SUBCONTRACTOR'S in-process Work shall be performed by the STR's construction project support personnel as appropriate.

NONE

B-6 PLACE OF PERFORMANCE

Refer to 6.1. Delivery Location, 6.2 Work Location, 6.3 Site Access and Work Hours, 6.4 Badging of the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

6.1. Delivery Location

Delivery location will be Nevada National Security Site Receiving Warehouse 160 Mercury, NV 89023

6.2. Work Location

Work will be performed at Nevada National Security Site - Area 6, Tweezer Substation Mercury, NV 89023 For any work performed on the NNTS site or in an MSTs controlled facility, the provision of the On-Site services shall apply to this subcontract.

6.3. Site Access and Work Hours

MSTs personnel at the NNSS work a standard 4/10 schedule. The standard work week consist of ten (10) hours of work between 6:00 a.m. and 4:30 p.m. with one-half hour designated as an unpaid period for lunch, Monday through Thursday.

Onsite work performed outside normal operating hours shall be coordinated and/or approved through the STR and/or the Procurement Specialist prior to performing the work.

6.4. Badging

Any on-site work will be coordinated with the STR in accordance with the SOW and site-specific training requirements. The SUBCONTRACTOR shall wear a MSTs issued security badge identifying themselves. A minimum of 2 working days advance notice is needed for site badging. SUBCONTRACTOR employees shall be required to submit to vehicle searches and not personally carry or transport certain prohibited articles ([NVE-PA-CA-R3.pdf](#)).

B-7 CLEARANCE REQUIREMENTS

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

B-8 SPECIAL REQUIREMENTS

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

8.1. Permits

Except for permits furnished by MSTs the SUBCONTRACTOR shall, without additional expense to the MSTs, be responsible for obtaining any and all necessary licenses and permits.

The MSTs will, without cost to the SUBCONTRACTOR, furnish the permits listed below. All such MSTs-furnished permits are available for examination at the project office of MSTs during regular business hours.

[Enter any applicable permits MSTs provides. If None state "N/A".

The SUBCONTRACTOR shall also be responsible and liable for all materials delivered and Work performed until completion and acceptance of the entire Work, except for any completed unit of Work which may have been accepted under the SUBCONTRACTOR.

8.2. Lower-Tier Subcontracts

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

B-9 ENVIRONMENTALLY PREFERABLE PRODUCTS

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

B-10 MEETINGS

After Task Order Release award, a Subcontract Kickoff Meeting is requested, which may be a conference call, an internet meeting, or a meeting to be held at MSTs. The time, date, and agenda for the meeting will be provided to the SUBCONTRACTOR by MSTs.

The SUBCONTRACTOR shall interface with various MSTs (and other) organizations through MSTs' Procurement Specialist (or STR for in-scope work), as required, or at points and frequency determined by the Procurement Specialist.

MSTs will issue meeting notices and prepare an agenda and minutes for each meeting addressed in this Section. When applicable, minutes will identify action items, assigned actioner, and due dates. The purpose of the meetings is the exchange of work-related information. The person or persons designated by the SUBCONTRACTOR to attend all meetings shall have all required authority to make decisions and commit SUBCONTRACTOR to technical decisions made during meetings.

Site Labor Conference: Will be held between MSTs, the appropriate union(s), and the SUBCONTRACTOR before work commences at the NNSS in accordance with the applicable Project Labor Agreements.

- A. **Kickoff Meeting:** after issuance/acceptance of the subcontract, MSTs will conduct a meeting with the SUBCONTRACTOR and major lower-tier SUBCONTRACTORS. The meeting's purpose is to provide the SUBCONTRACTOR with additional information as required to accomplish the scope specified in this SOW, and to develop lines of communications, and a working relationship. This meeting will focus on a discussion of the work scope and goals and roles and responsibilities of each participant. Pertinent documents will be reviewed and discussed. The SUBCONTRACTOR shall prepare meeting minutes that emphasize agreements, commitments, and planned actions.

The SUBCONTRACTOR shall submit the final minutes after the meeting in accordance with the Submittal Register.

- B. **Status Meetings:** Project status meetings will be held weekly either by MS Teams or in person to review the progress, to provide weekly schedule status, and exchange work-related information, including but not limited to design and scope changes, progress, coordination with functional utility providers, and scheduling issues. The SUBCONTRACTOR shall prepare meeting minutes that emphasize agreements, commitments, and planned actions. The SUBCONTRACTOR shall submit the final minutes after the meeting in accordance with the MSR.
- C. **Safety Meetings:** SUBCONTRACTOR shall perform and document daily pre-job meetings using the MSTs Pre-job Briefing Form 1063B. Late arrivals and/or visitors shall be provided with the same daily briefing. The SUBCONTRACTOR is also required to perform a documented weekly safety meeting. This documentation shall be maintained onsite for the job duration for review upon request.

FREQUENCY	DURATION	TITLE	DESCRIPTION / PURPOSE
Identify the frequency	Expected duration, Example 1 hour	Meeting Title	Purpose for the meeting
Start of each Phase	1-2 hrs	Project Kick-off	Discuss Project, deliverables, communication, contacts
Completion of each Task	1-2 hrs	Phase Gate Review	Present Phase Gate information

FREQUENCY	DURATION	TITLE	DESCRIPTION / PURPOSE
30%, 60%, 90%, 100%	1 hour	Design Milestone	Review Milestones

B-11 SUBMITTALS

If the SOW requires the submittal of SUBCONTRACTOR Information, the following apply:

- The following items shall be submitted to the submittal e-mail address(es) as indicated on Appendix A, *Submittal Register*, identifies deliverables due during the execution of this subcontract and the recipient.
- The SUBCONTRACTOR shall include the Procurement Specialist and STR on the transmittal.
- Subcontractor information shall be submitted in either hard copy or electronic format (If electronic, it must be viewable using either Microsoft® Windows®, Microsoft® Office, or Adobe® Acrobat® software).
- Submittals should consist of any information, documentation, data, etc. which will require review/approval or used as verification or acceptance of work completed.

B-12 DELIVERABLES

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

Phase 3.2: Discovery

- Discovery Phase Gate Review

Phase 3.3: Planning and Development

- FRM-3176 Risk Register
- WBS Dictionary
- Operational Requirements during Construction
- BOE and supporting documentation
- Planning and Development Phase Gate Review

Phase 3.4: Design

- Bill of Materials
- Long Lead items (parts and material)
- An Updated WBS for Construction
- Performance Management Baseline Review
- Design Phase Gate Review

Phase 3.5: Construction

- Commissioning Plan

Phase 3.6: Close Out

- Lessons learned

A. The SUBCONTRACTOR is required to participate in the project turnover process by assisting the STR and CM in developing and completing the project punch list. The SUBCONTRACTOR shall notify the STR and CM no later than one (1) day after completing the punch list item(s).

B-13 PROJECT CONTROLS, MILESTONES & PERFORMANCE SCHEDULE REQUIREMENTS

Refer to the Indefinite Delivery, Indefinite Quantity (IDIQ) Blanket Master Agreement.

B-14 APPENDIX

<i>APPENDIX NUMBER</i>	<i>TITLE</i>	<i>REV</i>	<i>PAGES</i>
Appendix A	Submittal Register	<i>Rev</i>	3
Appendix 1.1	Detailed Design Drawing Requirements MSTS Rev 01	<i>Rev 01</i>	6
Appendix 1.2	FRD Template	<i>Rev 0</i>	33
Appendix 1.3	Risk Register -FRM-3176	<i>NA</i>	6
Appendix 1.4	BOE Template	<i>NA</i>	19

The SUBCONTRACTOR shall meet the required schedule and provide the documents specified in accordance with the following submittals.

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information					
Subcontractor Name: <i>TBD</i>		SOW Title: <i>TO-1-Major Substations Control House Replacement</i>			
Purchase Order and Release Number: <i>TBD</i>		Requisition Number: <i>TBD</i>			
Section B: Submittal Delivery Requirement					
Submittals shall be electronically, unless otherwise noted, to: <i>Procurement Specialist; Jacob Curry; Curryja@NV.DOE.GOV and Subcontract Technical Representative; Wisam AlShammary; alshamwj@NV.DOE.GOV</i> <i>Insert any special notes. DO NOT INCLUDE internal distribution notes.</i>					
Section C: Submittal Requirement Details					
NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
001.	Subcontract Schedule	<i>Subcontract</i>	No later than 10 calendar days from date of award, update <i>insert SOW required frequency</i>	ProcSpec STR	Prior to the start of work
002.	Service Contract Reporting Requirements	<i>Subcontract</i>	Annually by October 15	ProcSpec	As specified in special condition titled, "Service Contract Reporting Requirements"
003.	Discovery Phase Validation Document	<i>Exhibit B</i>	Per approved SUBCONTRACTOR Schedule, in TO	STR	
004.	Functional Requirements Document (FRD) Discovery Phase	<i>Exhibit B</i>	Per approved SUBCONTRACTOR Schedule, in TO	STR	
005.	Universal Conceptual Design, Planning/Development Phase	<i>Exhibit B</i>	Per approved SUBCONTRACTOR Schedule, in TO	STR	
006.	Monthly Progress Reports, Planning/Development Phase	<i>Exhibit B</i>	Per approved SUBCONTRACTOR Schedule, in TO	STR	
007.	Design Development Submittal [30%], Design Phase	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	All documents, drawings, and specification required

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information					
Subcontractor Name: <i>TBD</i>		SOW Title: <i>TO-1-Major Substations Control House Replacement</i>			
Purchase Order and Release Number: <i>TBD</i>		Requisition Number: <i>TBD</i>			
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Section C: Submittal Requirement Details					
NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
008.	Design Development Submittal [60%] Design Phase	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	All documents, drawings, and specification required
009.	Design Development Submittal [90%] Design Phase	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	All documents, drawings, and specification required
010.	Final Design Documentation Submittal [100%] Design Phase	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	All documents, drawings, and specification required
011.	<i>IFC Drawings, Design Phase</i>	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	All documents, drawings, and specification required
012.	<i>Baseline Construction Schedule, Design Phase</i>	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	
013.	<i>Monthly Project Report, Design Phase</i>	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	
014.	<i>As Built Drawings, Close Out Phase</i>	Exhibit B	Per approved SUBCONTRACTOR Schedule, in TO	STR	
015.	Workplace Substance Abuse Program to include Evidence of Compliance with SUBCONTRACTOR's Workplace Substance Abuse Program	<i>Exhibit E</i>	Annually, based on date of CONTRACTOR acceptance	ProcSpec	Provide any changes to the Program and evidence for that year's compliance in accordance with Title 10 Code of Federal Regulations Part 707

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information					
Subcontractor Name:	<i>TBD</i>	SOW Title:	<i>TO-1-Major Substations Control House Replacement</i>		
Purchase Order and Release Number:	<i>TBD</i>	Requisition Number:	<i>TBD</i>		
Section B: Submittal Delivery Requirement					
Submittals shall be electronically, unless otherwise noted, to: <i>Procurement Specialist; Jacob Curry; Curryja@NV.DOE.GOV and Subcontract Technical Representative; Wisam AlShammary; alshamwj@NV.DOE.GOV</i> Insert any special notes. DO NOT INCLUDE internal distribution notes.					
Section C: Submittal Requirement Details					
NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
016.	Subcontract Hours, FRM-1253	<i>Exhibit E</i>	On or prior to the 28 th of the month	STR	
017.	Monthly Total Recordable Incident Rate (TRIR) and Days Away,	<i>Exhibit E</i>	On or prior to the 28 th of the month	STR	
018.	Monthly Invoice Report	<i>Exhibit B</i>	On or prior to the 28 th of the month	STR	
019.	Injury/Illness Infraction Report, FRM-0018	<i>Exhibit E</i>	Immediately	STR	The SUBCONTRACTOR is required to report all job-related injuries and illnesses, regardless of severity,
020.	Environmental, Safety, and Health Plan	Exhibit E	NLT 10 calendar days from award/Prior to start of work	STR	
021.	Safety Data Sheet(s)	Exhibit E	NLT 10 calendar days from award/Prior to start of work	STR	
022.	Safety and Personnel Report	Exhibit E	Monthly, NLT 28th day of the new month	STR	
023.	Quality Control/Assurance Program	Exhibit B	NLT 10 calendar days from award/Prior to start of work	STR	

*NLT = No Later Than
NTP = Notice to Proceed
TLO = Transmittal Letter Only*

